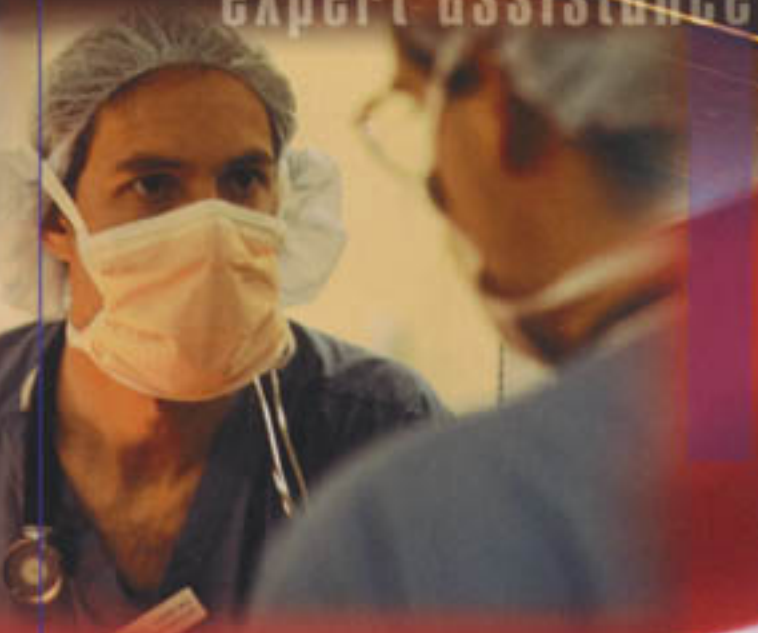
Domestic Preparedness

preparedness

expert assistance



training

response teams

COMPENDIUM OF WEAPONS OF MASS DESTRUCTION COURSES
Sponsored by the Federal Government
AUGUST 2000

PREFACE

This compendium of courses was compiled to inform state and local agencies of federal training that is available in the area of weapons of mass destruction (WMD). These courses are all available to state and local responders. This compendium will be updated, as new courses become available.

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Department of Energy (DOE)

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of
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2. Background. Terrorist incidents involving weapons of mass destruction (WMD) pose a growing threat to the security of the United States. Effective response will depend on local and State response organizations' attainment of WMD-related expertise and proficiency. Emergency responders and managers must be able to recognize the unique characteristics of WMD in order to protect themselves and the public, mitigate the dangers, and facilitate the integration of federal, state and local support actions that are necessary to resolve the incident. The Federal Government makes training available to help ensure that local and State responders have the knowledge and skills necessary for WMD incidents.

A. Legislation. The most recent and comprehensive effort in this regard was mandated by Title XIV of Public Law 104-201, the National Defense Authorization Act for Fiscal Year 1997. This legislation, also known as Nunn-Lugar-Domenici, directed the Federal Government to improve the capabilities of state and local agencies to respond to incidents involving WMD. The Department of Defense (DOD) was directed to lead the Federal Government effort.

The U.S. Army Soldier and Biological Chemical Command (SBCCOM) was designated as the Program Director for Domestic Preparedness to coordinate, integrate, and execute a program to enhance domestic preparedness to nuclear, biological, and chemical (NBC) terrorism. The purpose of this program is to provide for training of state and local emergency responders in the event of a terrorist incident involving nuclear, biological or chemical (NBC) weapons of mass destruction. The training program is intended to "train the trainers" and be in the form of modules which can be tailored to meet the specific training needs of individual cities and readily integrated into the existing emergency responder training programs at the state and local level.

B. Development of a Training Package. SBCCOM, in coordination with other federal agencies and DOD organizations, developed a training program to address the training shortfalls. Four focus group seminars of emergency responders were held in February 1997 to identify the training performance objectives required by emergency responders to obtain proficiency in WMD issues. These focus groups identified 26 performance objectives which were then matrixed against five levels of competency:

Competency Levels

- Employee Awareness
- Responder Awareness
- Operations
- Technician/Specialist
- Incident Command

The Domestic Preparedness program is providing the train the trainer courses to only the first 120 cities by population. This program cannot address the training needs of the entire nation, although it does greatly enhance the nation's current state of preparedness. The federal agencies recognize this and have prepared this compendium of other federal courses which relate to the performance objectives developed for the Domestic Preparedness Train-the-Trainer courses.

The courses prepared under the Nunn-Lugar-Domenici legislation are described on page 5. Although only the largest, by population, 120 cities are targeted to receive these Train-the Trainer courses it is the program's intent that the Trainers from the adjacent communities, state and regional agencies will be included in the each cities training. These trainers will provide a local capability to continue teaching the performance objectives as envisioned by the Nunn-Lugar-Domenici legislation.

Agencies providing courses are listed alphabetically and the individual courses are listed alphabetically within the agency. The database fields are titled to reflect field contents, making each entry self-explanatory. By way of clarification, it should be noted that NBC performance objectives addressed by a given course are listed by the corresponding number of the performance objective in the Performance Objectives Matrix (Figure 1). Blank database fields exist where sponsoring organizations did not provide the required information.

Over ninety courses were identified during the collection of this compendium. Course materials were obtained for review from eleven federal agencies.

Of the over ninety courses ninety-two were federally sponsored courses of instruction were identified as addressing one or more of the NBC emergency responder performance objectives. An additional six courses were identified by FEMA's Emergency Management Institute as being relevant to the program objective, although not directly addressing the identified NBC performance objectives. Courses available through the U.S. Army Chemical School focused more on chemical and biological areas, whereas those offered by the Department of Energy focused almost entirely on radiological aspects of the NBC arena.

C. Description of Domestic Preparedness Courses.

Awareness Training - is an introductory 30-minute video presentation to acquaint diverse employees at potential terrorist target facilities and 911 operators. The video will be presented in layman terms in both English and Spanish. There is no instructor requirement; however, a facilitator (provided by the facility employer) is recommended to introduce the video. The video will cover the general aspects of nuclear, biological and chemical terrorism; information on recognizing a nuclear; biological or chemical terrorist incident(s) through signs and symptoms; possible dissemination devices and self-protection measures. Instructional materials include a facilitator's guide, a pamphlet for the participants and a 911 checklist for future reference.

Responder Awareness Training - is designed for initial emergency responders of a possible terrorist incident. These responders include firefighters, police officers and emergency medical responders. The goal of this four-hour course is for emergency responders to recognize signs and symptoms of a nuclear, chemical and/or biological incident, to protect themselves and make proper notification. This course includes:

- Introduction to the NBC Terrorism Threat
- Radiological, biological and chemical materials and weapons
- Dissemination Devices
- Responder Actions

Prior to enrollment in the Responder Awareness course, participants should have a basic understanding of principles and procedures for responding to a hazardous material incident. Upon completion of this course, participants will be able to teach other responders the signs and symptoms of chemical and biological agents and nuclear materials; potential devices used for dissemination; and defensive actions to safeguard themselves and their community.

Responder Operations Training - is designed specifically for incident response teams in a defensive mode. The Responder Awareness course is a prerequisite. This four-hour course covers:

- Responder Actions at the Operations Level
- Chemical Downwind Hazard Analysis
- Personal Protection
- Introduction to Detection & Identification
- Emergency Decontamination Procedures
- Practical Exercise

After completing this course, participants will be able to instruct the technical aspects of nuclear, biological and chemical incidents, and the defensive actions required for responders to protect themselves and their community.

Technician HAZMAT Training - is a 12-hour stand alone course specifically designed for current HAZMAT trainers. HAZMAT trainers will learn the difference between responding to nuclear, biological and chemical terrorist incidents compared to a standard HAZMAT event. This course covers:

- Responder actions at the HAZMAT Technician Level
- NBC Agents at the HAZMAT Technician Level
- Protective Equipment
- Decontamination Procedures
- Chemical Classification, Detection and Identification
- Practical Exercise

Incident Command Training - provides incident commanders with the necessary information and considerations necessary to effectively command a nuclear, biological or chemical incident. The course consists of four hours of lecture and two hours of a tabletop exercise. Specific topics include coordination of resources; protective measures and associated risks; evacuation versus shelter-in-place considerations; perimeter security measures, management of mass casualties, and applications of the Federal Response Plan. This course covers the following modules:

- Challenges and Consequences of Management in an NBC Incident
- Tactical Considerations and Actions for nuclear, biological and chemical incidents
- Understanding the Roles of the Federal Government in an NBC Terrorist Incident
- NBC Terrorism Response and Planning Exercise

Senior Officials' Workshop - is designed to instruct and inform the senior leadership on how to:

- Employ an integrated planning, training and exercising effort among local agencies, multi-jurisdictions and mutual aid partners for response to a nuclear, biological or chemical terrorist incident
- Recognize probable nuclear, biological and chemical situations and the implications for the community
- Interact with state and federal agencies so operational assets can be assembled, assigned and employed with maximum effectiveness
- Interact with the media to calm public fears and maintain public confidence in local government

Technician Emergency Medical Services Training - course provides the EMS technician with the unique aspects of responding to a terrorist event involving nuclear, biological or chemical materials. This course includes recognizing nuclear, biological and chemical exposure; trends indicating possible events; safe and legal antidote requirements; unique triage of potential mass casualties and emergency medical field treatment demands. Unique considerations for treating children and elderly victims of an NBC terrorist incident are also addressed. The course will consist of lectures, demonstrations and field exercises to include personal protection measures, detection, decontamination and triage.

Technician Hospital Provider Training - is designed for emergency department physicians and nurses. This course will include the same subjects as the EMS course, however, at a more advanced level. Not only will it describe how to properly manage, decontaminate, diagnose and treat victims of a nuclear, biological or chemical incident but how to protect against cross-contamination using personal protective measures. The course will include nuclear, biological and chemical unique public health guidelines. This course consists of classroom lecture with demonstrations and case studies.

3. Federally-Sponsored NBC Courses (List).

TITLE OF COURSE
AGENCY/SPONSOR

APPENDIX A

PERFORMANCE OBJECTIVES MATRIX

Performance Objectives Matrix

Performance Requirements *Legend for requirements:* ○ - basic level ● - advanced level ♦ - specialized						
Competency level		Awareness		Operations	Technician/ Specialist	Incident Command
		Employees	Responders			
Examples		Facility workers, hospital support personnel, janitors, security guards	Initial firefighters, police officers, 911 operators/ dispatchers	Incident response teams, EMS basic HAZMAT personnel on scene	Incident response team specialist, technicians, EMS advanced, and medical specialist	Incident Commanders
Areas of Competency	Ref.					
1. Know the potential for terrorist use of NBC weapons: - what nuclear/biological/chemical (NBC) weapons substances are, - their hazards, and risks associated with them, - likely locations for their use, - the potential outcomes of their use by terrorist - indicators of possible criminal or terrorist activity involving such agents, - behavior of NBC agents.	C, F, M, m, G	○ ○ ○ ○	● ● ● ● ●	● ● ● ● ● ●	● ♦ ● ● ● ♦	● ● ● ● ● ●
2. Know the indicators, signs and symptoms for exposure to NBC agents, and identify the agents from signs and symptoms, if possible.	C, F, M, m	○	●	●	♦	●
2a. Knowledge of questions to ask caller to elicit critical information regarding an NBC incident.	G, m		● (911 only)			
2b. Recognize unusual trends which may indicate an NBC incident.	G, m		●	●	♦	●
3. Understand relevant NBC response plans and SOPs and your role in them.	C, F, M, m	○	●	●	●	●
4. Recognize and communicate the need for additional resources during a NBC incident.	C, m, G	○	●	●	●	●
5. Make proper notification and communicate the NBC hazard.	C, F, M, m	○	●	●	●	●
6. Understand: - NBC agent terms - NBC toxicology terms	C, F, m	○	●	● ● (EMS-8 only)	● ●	● ●

Legend for references:
C - 29 CFR 1910.120 (OSHA Hazardous Waste Operations and Emergency response)
M - Macro objectives developed by a training subgroup of the Senior Interagency Coordinating Group)
m - Micro objectives developed by U.S. Army Chemical & Biological Defense Command
G - Focus Group workshop
F - NFPA Standard 472 (Professional Competence of Responders to Hazardous Materials Incidents) and/ or NFPA Standard 473 (Competencies for EMS Personnel Responding to Hazardous Materials Incidents)

Performance Objectives Matrix

Performance Requirements *Legend for requirements:* ○ - basic level ● - advanced level ♦ - specialized						
Competency level		Awareness		Operations	Technician/ Specialist	Incident Command
		Employees	Responders			
7. Individual protection at a NBC incident - Use self-protection measures - Property use assigned NBC protective equipment - Select and use proper protective equipment	C, F, M, m	○	●	● ● ●	♦ ♦ ♦	● ● ●
8. Know protective measures, and how to initiate actions to protect others and safeguard property in an NBC incident.	F, M	○	●	●	●	●
8a. Know measures of evacuation of personnel in a downwind hazard area for an NBC incident.	M, G		●	●		●
9. CB decontamination procedures for self victims, site/ equipment and mass casualties: - Understand & implement - Determine	C, F, M, m	○ self	●	● ●	♦ ♦	● ●
10. Know crime scene and evidence preservation at an NBC incident.	F, M, m	○	● (except 911)	●	●	●
10a. Know procedures and safety precautions for collecting legal evidence at an NBC incident.	F, G, m		●	●	♦	●
11. Know Federal and other support infrastructure and how to access in an NBC incident.	C, F, M, m		○ (911 only)	○	●	♦
12. Understand the risks of operating in protective clothing when used at a NBC incident.	C, F, m		○	●	●	●
13. Understand emergency and first aid procedures for exposure to NBC agents, and principles of triage.	F, M		○	●	♦	○
14. Know how to perform hazard and risk assessment for NBC agents.	C, F, M, m			●	♦	●
15. Understand termination/ all clear procedures for a NBC incident.	C, F, m			●	●	●

Legend for references:
C - 29 CFR 1910.120 (OSHA Hazardous Waste Operations and Emergency response)
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m - Micro objectives developed by U.S. Army Chemical & Biological Defense Command
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Performance Objectives Matrix

Competency level		Performance Requirements *Legend for requirements:* ○ - basic level ● - advanced level ♦ - specialized Awareness		Operations	Technician/ Specialist	Incident Command
		Employees	Responders			
16. Incident Command System/ Incident Management System - Function within role in NBC incident - Implement for NBC incident	C, F, M			●	●	♦ ♦
17. Know how to perform NBC contamination control and containment operations, including for fatalities.	C, F, M, m			●	♦	●
17a. Understand procedures and equipment for safe transport of contaminated items.	G, m			●	♦	●
18. Know the classification, detection, identification and verification of NBC materials using field survey instruments and equipment, and methods for collection of solid, liquid and gas samples.	C, F, M, m			○	♦	●
19. Know safe patient extraction and NBC antidote administration.	F, m			● (medical only)	♦ (medical only)	○
20. Know patient assessment and emergency medical treatment in NBC incident	M, m, G			● (medical only)	♦ (medical only)	
21. Be familiar with NBC related Public Health & Local EMS issues.	G			● (medical only)	● (medical only)	○
22. Know procedures for patient transport following NBC incident.	F, G			● (medical only)	● (medical only)	○
23. Execute NBC triage and primary care	G			● (medical only)	♦ (medical only)	
24. Know laboratory identification and diagnosis for biological agents.	G				♦ (medical only)	
25. Have the ability to develop a site safety plan and control plan for a NBC incident.	C, F				♦	♦
26. Have ability to develop NBC response plan and conduct exercise of response.	G, m					●

Legend for references:
C - 29 CFR 1910.120 (OSHA Hazardous Waste Operations and Emergency response)
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m - Micro objectives developed by U.S. Army Chemical & Biological Defense Command
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APPENDIX B

COMPENDIUM
of
FEDERALLY-SPONSORED
NBC RELATED COURSES

DEPARTMENT OF DEFENSE (DOD)

Course Title	**Biological Warfare and Terrorism: *Medical Issues and Response***
Course Sponsor	United States Army Medical Research Institute of Infectious Diseases (U.S. AMRIID)
Course Description	Concern over the potential use of biological weapons for warfare or terrorism has increased in recent years, due to knowledge about biological weapons programs in other countries, numerous recent bioterrorism threats, advances in molecular biology, and the ease of information dissemination through the internet. Military and civilian medical and public health professionals must become proficient in the recognition and management of biological weapon casualties, and in notifying the appropriate agencies and personnel to respond to an event. This live and interactive satellite broadcast will inform and educate health professionals about the proper medical response in the event of an intentional biological agent release. September 26, 27, & 28, 2000, 12:30-4:30 PM ET (test signal from 12:00-12:30 PM ET). Length: 3 days
Course Objectives	**DAY 1** – Overview of biological agents. (This day will be a re-broadcast of Day 1 of last year's program, with the addition of live Q/A.) A new discussion will focus on the Department of Defense Anthrax Vaccine Immunization Program (AVIP). • Identify the most likely biological pathogens to be used in warfare or a terrorist event; • Identify the characteristics that make a biological pathogen an effective weapon; • Describe the epidemiology, pathogenesis, clinical features, and medical management of representative pathogens and toxins. • Review common questions related to the anthrax vaccine. **DAY 2** – Uses a battlefield biological warfare (BW) scenario to discuss the management of a biological warfare or terrorist event. • Identify 10 principles in the management of the clinical aspects of a biological weapon attack; • Identify epidemiological clues to distinguish a natural disease outbreak from a biological attack; • Describe correct triage and field management methods for biological agent casualties. **DAY 3** – Uses scenarios and round-table expert discussion to evaluate the public health and medical response to biological terrorism (BT). • Identify the primary care providers' and other public health professionals' roles in a BT event. • Identify components of a PH response to BT and preparedness requirements. • Identify how to deal with a BT hoax.
NBC Areas of Competency	1, 2, 2b, 3, 5, 6, 13, 17, 19-24

Target Audience

Military/Civilian/both	Both
Emergency Responder Group	Public health professionals (epidemiologists, laboratorians) who are involved in disease surveillance and prevention, clinical laboratory staff, pharmacists, first responders and others who would assist in recognizing and managing casualties from a biological agent attack
Emergency Responder Levels	Technician/Specialist, Operations Level

Type of Instruction	
Medium	Classroom, paper-based and interactive satellite broadcast
Gov/Contractor	TBD
Recommended Class Size	None
Course Location/ Facility Dependent	No.
Course Availability	Prior to broadcast.
Cost (Does not include billeting)	No cost.
POC	Rick Stevens
Phone Number	(301) 619-4880 (military callers may use the DSN prefix, 343-xxxx)

Comments

Registration - Individuals should register on-line at the web-site www.biomedtraining.org. You will be able to review and choose from a list of viewing sites available in your state. You must confirm your registration at a specific viewing site by using the e-mail or telephone information indicated for your site facilitator. If you do not have access to the Internet or cannot complete your registration on-line, please call Mr. Rick Stevens at (301) 619-4880 (military callers may use the DSN prefix, 343-xxxx). He will help you register or determine if your organization or installation has been registered as a downlink site. To ensure the receipt of print materials, the local site facilitator must know by September 1, 2000, that you will be attending the course. Additional students are welcome after this date as long as the local facility will accommodate them. Continuing education is being requested based on 4 hours of instruction for each day of this 3-day program, for a maximum of 12 hours of instruction from the U.S. Army MEDCOM. Although credit is offered for each day of the program, participation in all three days is encouraged.

Satellite Technical Specifications - The broadcast will be available as C-band, Ku-band, and digital (FTS2000: i.e. Air Warrior, AETC, ATN, etc.) satellite signals, as well as a VTC signal via the U.S. Army Medical Command's (MEDCOM) VTC Bridge. Arrangements can be made to use the MEDCOM bridge by calling 210-637-2256 or DSN 471-9706 extension 2256.

Specific Satellite Coordinates
C Band Satellite - Galaxy 11/4R*
Longitude - 99 Degrees West Channel/Transponder - 22
Polarization - Vertical
Downlink Frequency - 4140 MHz
Audio Frequency - 6.2 & 6.8
(* Galaxy 11 may soon be replaced with Galaxy 4R. If and when that takes place - nothing changes. Longitude, channel/transponder, downlink frequency will all be the same.)

Ku Band Satellite -Galaxy 10R
Longitude -123 Degrees West
Channel/Transponder - 24
Polarization - Horizontal
Downlink Frequency - 12180 MHz
Audio Frequency - 6.2 & 6.8

Site Facilitator Instructions - Ensure your organization or installation has assigned one person to act as the local site facilitator who will register your facility at www.biomedtraining.org. If you do not have access to the Internet or cannot complete your site registration on-line, please call Mr. Rick Stevens at (301) 619-4880 (military callers may use the DSN prefix, 343-xxxx). He will help you register or determine if your organization or installation has been registered as a downlink site. The local site facilitator must reserve a classroom and obtain a local technical point of contact (POC), and should be prepared to be the main POC for information regarding their facility (i.e., satellite downlink capability, FTS2000 site code/ID, and/or VTC system dial-in number). The program is available throughout the U.S., including Alaska, Hawaii, Puerto Rico, and southern Canada.

Test signal – The test signal will be broadcast from 12:00 - 12:30 PM ET on the same day of the program in September. Broadcast of the program begins promptly at 12:30 PM on September 26, 27, and 28.

Course Title Chemical/Biological Countermeasures Training (CBCT)

Course Sponsor	U.S. Army Chemical School
Course Description	This is an introductory course which enables civilian agencies to develop internal procedures for responding to an NBC agent terrorist attack. Each iteration is tailored to fit the needs of the agency participating in the training. The course can be lengthened or shortened based on the agency's mission and the training required. Recommended length: 3.5 days (a 3-hour nuclear radiation portion may be added if desired)
Course Objectives	• Understand CB terrorist threat. • Understand chemical and biological agents, effects, and behavior. • Understand protection and decontamination equipment and procedures. • Participate in live agent training. • Understand the military support to a CB incident.
NBC Areas of Competency	1, 2, 2a, 2b, 3, 6, 7, 8, 8a, 9, 12-17, 18, 19, 26

Target Audience

Military/Civilian/both	Civilian
Emergency Responder Group	Firefighter/HAZMAT, Incident Commanders
Emergency Responder Levels	Awareness Level, Operational Level

Type of Instruction

Medium	Classroom and practical exercise
Gov/Contractor	Government

Recommended Class Size	Less than 50 (20 - 25)
Course Location/ Facility Dependent	Yes. Use of CDTF & Tactical Clearing
Course Availability	Within 30 days
Cost (Does not include billeting)	$362 per person & travel, lodging & meal costs
POC	Mr. Michael Sheheane
Address	Fort Leonardwood, MO
Phone Number	(573) 563-7257
Prerequisites	10 days prior coordination - HAZMAT Level 1 certification, medical screening, 20/40 vision or optical inserts.
Comments	Some training is military equipment oriented. Nuclear module may be added. Tabs B, C, D and I of training course are particularly relevant. Does not cover the nuclear component.

Course Title	**Community Response Emergency Simulation Training (CREST)**
Course Sponsor	National Interagency Civil-Military Institute
Course Description	The course uses a combination of instruction and a computer-driven model to allow civilian and military responders to exercise vertical and horizontal interaction in response to a WMD terrorist event. CREST is a "train-the-trainer" program that includes a take home package that will allow students to conduct exercises to evaluate their interagency response plans. Length: 5 days
NBC Areas of Competency	1, 3, 4, 5, 11, 16, 21, 26

Target Audience

Military/Civilian/both	Both
Emergency Responder Group	Firefighter/HAZMAT, EMS, Law Enforcement, Emergency Managers
Emergency Responder Levels	Operations Level

Type of Instruction

Medium	Classroom, interactive computer laboratory
Gov/Contractor	Both

Recommended Class Size	38
Course Location/ Facility Dependent	NICI, San Luis Obispo, California Yes
Course Availability	Temporarily cancelled due to lack of funding. Potential for course to resume October 1, 1999.
POC	MAJ Beth Dreiling, DPDR Coordinator
Address	NICI, P.O. Box 4209, San Luis Obispo, CA 93403
Phone Number	(805) 782-6739
E-mail	dreilingb@nici.org
Comments	Students are given an exportable, PC-based system to use at their home site upon completion of the course. The "Preparing for and Managing the Consequences of Terrorism Course" is the ideal preparation for this course.

Course Title	**Field Management of Chemical and Biological Casualties**
Course Sponsor	U.S. Army MRICD
Course Description	The course is intended for non-medical officers and non-commissioned officers. The course is intended for first responders in military field units. Emphasis is placed on the initial treatment of casualties, transportation, and decontamination of chemical and biological agent casualties. The course is held four times a year at the U.S. Army Medical Research Institute of Chemical Research and the U.S. Army Medical Research Institute of Infectious Diseases. Length: 5 days
Course Objectives	• Recognize the military terms for chemical agents, the clinical effects of the agents, and means of therapeutic intervention in a field environment. • Recognize methods of managing contaminated and uncontaminated casualties in a field environment. • Recognize the historical aspects of chemical agent use in warfare and identify chemical warfare capabilities practiced in the world today by countries or by terrorist groups.
NBC Areas of Competency	2, 8a, 9, 13, 14, 19, 20, 22

Target Audience

Military/Civilian/both	Both
Emergency Responder Group	Firefighter/HAZMAT, Law Enforcement,
Emergency Responder Levels	Awareness Level, Operations Level and Technician Level

Type of Instruction

Medium	Classroom, paper based, video, CD-ROM and practical exercise
Gov/Contractor	Both

Recommended Class Size	Less than 50
Course Location/ Facility Dependent	No
Course Availability	Within 90 days
Cost (Does not include billeting)	$15,000 per course
POC	COL Charles Hurst, MC (MRICD)
Address	USAMRICD, Edgewood Area, Aberdeen Proving Ground, MD 21010
Phone Number	(410) 436-2230
Comments	Requires videocassette and CD-ROM. Does not cover the nuclear component. The MRICD Satellite Course is a shortened version of this course covering only the chemical component. The live satellite broadcast will teach health-care providers how different classes of chemical warfare agents act, and how to diagnose and treat victims of chemical agent exposures. Please go to www.cw-med.org for more information.

Course Title	**Medical Effects of Ionizing Radiation (MEIR)**

Course Sponsor	Armed Forces Radiobiology Research Institute (AFRRI)/USUHS
Course Description	A course directed at physicians and other health care providers who require specialized training in nuclear disaster response. Topics covered include threat of nuclear exposure; principles and biology of ionizing radiation; radiation pathology; acute radiation syndrome; combined injury; psychological reactions; radioprotection/prophylaxis; radioactive fallout and radiological defense; internal radionuclide contamination management; and biomedical lessons learned from recent radiation accidents. The course covers known data on chemical/biological interactions with radiation. Length: 4 days
Course Objectives	Provides background relating to human injury and combat effectiveness in nuclear weapons detonation or accident scenarios. • Principles of Nuclear and other Ionizing Radiation Weapons • Ionizing Radiation effects • Medical problems and treatments associated with radiation, including external exposure and internal contamination
NBC Areas of Competency	2, 2a, 7, 16, 17, 19, 20, 21, 23

Target Audience

Military/Civilian/both	Both
Emergency Responder Group	Emergency Medical Services (e.g., EMT, Paramedic), Emergency Medical Doctors/Nurses, Tertiary Care Physicians/Nurses, Deployable Hospital Providers
Emergency Responder Levels	Physicians, Senior Level Management

Recommended Class Size	Less than 100
Course Location/ Facility Dependent	No
Course Cost (Does not include billeting)	No tuition. All program iteration costs by funding agency.
POC	Office of Military Medical Operations
Address	Armed Forces Radiobiology Research Institute, 8901 Wisconsin Ave, Bethesda, MD 20889-5603
Phone Number	(301) 295-0316; Fax (301) 295-0424
Comments	A mobile training team is available to teach a 2.5 day MEIR course
Prerequisites	None

Course Title Medical Management of Biological Casualties

Course Sponsor	U.S. Army Office of the Surgeon General (OTSG) (USAMRIID)
Course Description	Under development, this course will be available in CD-ROM format. It will present medical treatment protocols for immediate care of casualties, as well as information on agent detection and containment, decontamination, self-protection strategies and support activities. It will consist of three tracks: one for medical professionals (physicians, nurses and physicians assistants), one for first responders (military medics, EMTs and paramedics), and one for commanders and other non-medical personnel. Length: 6.5 days
Course Objectives	• Describe physiology and signs and symptoms of exposure to biological agents. • Diagnose and treat biological agent casualties.
NBC Areas of Competency	13, 17, 19, 20

Target Audience

Military/Civilian/both	Military
Emergency Responder Group	Firefighter/HAZMAT, Emergency Medical Services (e.g., EMT, Paramedic)
Emergency Responder Levels	Awareness Level, Operations Level, Technician/Specialist Level, EMS Level, Senior Management Level

Type of Instruction

Medium	CD-ROM
Gov/Contractor	Both

Recommended Class Size	Less than 50
Course Location/ Facility Dependent	No

POC	Cdr Randy Culpepper
Address	USAMRIID, Attn: Operational Medicine Div., 1425 Porter St., Ft. Detrick, MD 21701
Phone Number	(301) 619-4535
Comments	Copies can be ordered from the National Audiovisual Center, (703) 487-4630. Scheduled availability in 1999. Target audience is military, although civilians can use. Does not cover the nuclear/chemical components.

Course Title	**Medical Management of Chemical and Biological Casualties**
Course Sponsor	U.S. Army MRICD/MRIID
Course Description	The course is intended for military medical personnel (physicians, nurses, physicians assistants, and certain corpsmen) and for civilian medical personnel who work around military chemical agents or who might manage military chemical or biological agent casualties (e.g., in war or after a depot accident). The prerequisite is that the attendee be a health care provider. The course is held 4 times a year at the U.S. Army Medical Research Institute of Chemical Research and the U.S. Army Medical Research Institute of Infectious Diseases. Length: 6.5 days
Course Objectives	Recognize the military terms for chemical and biological agents, the clinical effects of the agents, and means of therapeutic intervention in both a medical center and a field environment. Recognize methods of managing contaminated and uncontaminated casualties in a field environment or a fixed medical facility. Recognize the historical aspects of chemical and biological agent use in warfare and identify chemical and biological warfare capabilities practiced in the world today by countries or by terrorist groups.
NBC Areas of Competency	2, 8a, 9, 13, 14, 19, 20, 22

Target Audience

Military/Civilian/both	Military
Emergency Responder Group	Firefighter/HAZMAT, Emergency Medical Services (e.g., EMT, Paramedic)
Emergency Responder Levels	Awareness Level, Operations Level, Technician/Specialist Level, EMS Level, Senior Management Level

Type of Instruction

Medium	Classroom, paper based, video, computer based and practical exercise
Gov/Contractor	Both

Recommended Class Size	Less than 50
Course Location/ Facility Dependent	No
Cost (Does not include billeting)	$15,000 per course
POC	COL Charles Hurst (MRICD)
Address	Edgewood Area, Aberdeen Proving Ground, MD 21010
Phone Number	(410) 436-2230
Comments	A 3-day version of the course is available for export within 3 months of a request, subject to instructor availability. The 6 1/2 day course is scheduled 2 years in advance and focuses on military medical personnel. Required videocassette player and CD-ROM. Does not cover the nuclear component. Course available pending funding.

Course Title NBC Domestic Preparedness Training Basic Awareness (Employee)

Course Sponsor DOD/SBCCOM

Course Description A video presentation designed to acquaint a diversified audience of employees (e.g., security guards, 9-1-1 operators/dispatchers, cleaning staff, ticket takers, hospital support staff, baggage handlers) at potential terrorist target facilities with the signs and symptoms associated with a nuclear, biological and chemical terrorist incident, and how to recognize and respond to such an incident. The course includes a facilitator's guide and an example 9-1-1 checklist. Length: 30 minutes

Course Objectives Upon completion of the training, employees should:

- Know the potential for terrorist use of NBC weapons.
- Be able to recognize an NBC attack.
- Know how to make proper notification and communicate the NBC hazard.

In addition, 9-1-1 Operators/Dispatchers should:

- Know the questions to elicit critical NBC agent information from callers.
- Recognize unusual trends that may indicate an NBC incident.
- Know protective measures and how to initiate actions to protect others and safeguard property.
- Know the support infrastructure and how to access it in an NBC incident.

NBC Areas of Competency 1, 2, 3, 4, 5, 6, 7, 8, 9, 10

Target Audience

Military/Civilian/both	Civilian
Emergency Responder Group	Facility employees
Emergency Responder Levels	Awareness

Type of Instruction

Medium	Classroom TV/VCR
Gov/Contractor	Both

Recommended Class Size Limited only by facility capacity

Course Location/ Facility Dependent No

POC Domestic Preparedness CB Helpline

Address U.S. Army Soldier and Biological Chemical Command, Aberdeen Proving Grounds, MD 21010

Phone Number 1-800-368-6498

Comments This video presentation is part of the National Defense Authorization Act for FY96, Title XIV Defense Against Weapons of Mass Destruction Preparedness Training Program which include Senior Officials' Workshop, Employee Basic Awareness Video, Responder Awareness, Responder Operations, Incident Command, Technician Hazmat, Technician EMS, and Hospital Provider.

Course Title	**NBC Domestic Preparedness Training Incident Command**
Course Sponsor	DOD/SBCCOM
Course Description	An advanced-level course designed to "train-the-trainers" of incident commanders (Battalion Chief [or equivalent] and above). Focus is on the management and associated decision making relevant to an NBC terrorist incident site and coordination of the response resources. Training will include a scenario-based tabletop exercise. Training builds upon the information contained in the Emergency Responder Awareness and Operations courses (or Technician-HAZMAT course). Length: 8 hours
Course Objectives	Upon completion of the training and appropriate self-study and rehearsal, trainers will be prepared to provide instruction in the following areas summarized below (specific performance objectives are shown at Appendix A): • Management of the incident site from the Incident Command perspective. • Coordination of response assets. • Procedures and resources for handling mass casualties to include mass decontamination. • Downwind hazard impact and the decision to evacuate or protect in place. • Decisions regarding detection, identification, protective equipment, decontamination and reoccupation of the facility. • The Federal Response Plan and its relationship to an NBC terrorism incident. • Development of a site safety plan. • Development and exercise of an NBC response plan.
NBC Areas of Competency	1, 2, 2b, 3, 4, 5, 6, 7, 8, 8a, 9, 10, 10a, 11, 12, 13, 14, 15, 16, 17, 17a, 18, 19, 21, 22,25,26
Target Audience	
Military/Civilian/both	Civilian
Emergency Responder Group	Incident Commander
Emergency Responder Levels	Incident Command
Type of Instruction	
Medium	Classroom. Additional "break-out" room or tabletop exercise. TV/VCR, 35-mm slide projector and screen, 2 white boards, chalkboards and butcher block paper.
Gov/Contractor	Both
Recommended Class Size	10-20 students
Course Location/ Facility Dependent	No
POC	Domestic Preparedness CB Helpline
Address	U.S. Army Soldier and Biological Chemical Command, Aberdeen Proving Grounds, MD 21010
Phone Number	1-800-368-6498
Prerequisites	*Successful completion of the Emergency Responder Awareness and Operation, or Technician HAZMAT, or Technician EMS, or Hospital Provider*. Knowledge of the principles and working experience in responding to a HAZMAT incident. Knowledge and understanding of incident command and the Incident Command System. Prior training and competence as an instructor.
Comments	This course is part of the National Defense Authorization Act for FY96, Title XIV Defense Against Weapons of Mass Destruction Preparedness Training Program which include Senior Officials' Workshop, Employee Basic Awareness Video, Responder Awareness, Responder Operations, Incident Command, Technician Hazmat, Technician EMS, and Hospital Provider.

Course Title	**NBC Domestic Preparedness Training Responder Awareness**
Course Sponsor	DOD/SBCCOM
Course Description	A course designed to "train-the-trainers" of initial emergency responders (e.g., firefighters, emergency medical responders and law enforcement personnel) to nuclear, biological and chemical terrorist incidents. Length: 4 hours
Course Objectives	Upon completion of the training and appropriate self-study and rehearsal, trainers will be prepared to provide instruction in the following areas (specific performance objectives are shown at Appendix A): • The NBC terrorist threat. • Recognizing an NBC incident through signs, symptoms, and trends. • Chemical and biological agents and types of radiological materials that might be used and relevant terminology. • The physiological and psychological effects of C/B agents and radiological material. • Potential dissemination devices. • Individual protective measures. • Responder actions.
NBC Areas of Competency	1, 2, 2a, 2b, 3, 4, 5, 6, 7, 8, 8a, 9, 10, 10a, 11, 12, 13

Target Audience

Military/Civilian/both	Civilian
Emergency Responder Group	Firefighter/Hazmat, Law Enforcement, Emergency Medical Services (EMT/Paramedics), Incident Commanders, and First Responder Trainers
Emergency Responder Levels	Awareness

Type of Instruction

Medium	Classroom, TV/VCR, 35 mm slide projector and screen
Gov/Contractor	Both

Recommended Class Size	Optimum: 25 students, Maximum: 50 students
Course Location/ Facility Dependent	No
POC	Domestic Preparedness CB Helpline
Address	U.S. Army Soldier and Biological Chemical Command, Aberdeen Proving Grounds, MD 21010
Phone Number	1-800-368-6498
Prerequisites	A basic understanding of, and familiarity with, the principles and procedures for responding to a HAZMAT incident. Prior training and competency as an instructor.
Comments	This course is part of the National Defense Authorization Act for FY96, Title XIV Defense Against Weapons of Mass Destruction Preparedness Training Program which include Senior Officials' Workshop, Employee Basic Awareness Video, Responder Awareness, Responder Operations, Incident Command, Technician Hazmat, Technician EMS, and Hospital Provider.

Course Title	**NBC Domestic Preparedness Training Responder Operations**
Course Sponsor	DOD/SBCCOM
Course Description	An intermediate-level course designed to "train-the-trainers" of operations level emergency responders (e.g., incident response teams and EMS basic personnel) on nuclear, biological and chemical terrorist incidents. This course builds on the information presented in the Emergency Responder Awareness course. Length: 4 hours
Course Objectives	Upon completion of the training and appropriate self-study and rehearsal, trainers will be prepared to provide instruction in the following areas (specific performance objectives are shown at Appendix A): • Responder actions at the operations level under the Incident Command System. • Basic chemical downwind hazard prediction. • Personal protection requirements and capabilities. • Introduction to detection and identification equipment for NBC agents. • Emergency decontamination procedures for victims and responders.
NBC Areas of Competency	1, 2, 2b, 3, 4, 5, 6, 7, 8, 8a, 9, 10, 10a, 11, 12, 13, 14, 15, 16, 17, 17a, 18, 19, 20, 21, 22, 23
Target Audience	
Military/Civilian/both	Civilian
Emergency Responder Group	Firefighter/Hazmat, Law Enforcement, Emergency Medical Services (EMT/Paramedics), Incident Commanders, and First Responder Trainers
Emergency Responder Levels	Operations
Type of Instruction	
Medium	Classroom, TV/VCR, 35 mm slide projector and screen, overhead projector
Gov/Contractor	Both
Recommended Class Size	Optimum: 25 students, Maximum: 50 students
Course Location/ Facility Dependent	No
POC	Domestic Preparedness CB Helpline
Address	U.S. Army Soldier and Biological Chemical Command, Aberdeen Proving Grounds, MD 21010
Phone Number	1-800-368-6498
Prerequisites	*Successful completion of the Responder Awareness course*. Knowledge of the principles and working experience responding to a HAZMAT incident. Prior training and competency as an instructor.
Comments	This course is part of the National Defense Authorization Act for FY96, Title XIV Defense Against Weapons of Mass Destruction Preparedness Training Program which include Senior Officials' Workshop, Employee Basic Awareness Video, Responder Awareness, Responder Operations, Incident Command, Technician Hazmat, Technician EMS, and Hospital Provider.

Course Title NBC Domestic Preparedness Training Senior Officials' Workshop

Course Sponsor DOD/SBCCOM

Course Description A workshop, intended to instruct and inform the senior leadership of the city. The workshop is interactive, employing video clips, case studies, lecture and discussion to promote understanding amongst city officials of the impacts of nuclear, biological and chemical weapons of mass destruction. Length: 4.5 hours

Course Objectives Upon completion of the training, participants should be able to:

- Assess the potential risk to their community from NBC WMD.
- Identify possible targets within their community.
- Understand the implications for their community from NBC WMD.
- Interact with state and federal personnel so that operational assets can be assembled, assigned and employed with maximum effectiveness.
- Identify special legal and financial considerations that NBC WMD incidents may involve.

NBC Areas of Competency None

Target Audience

Military/Civilian/both	Civilian
Emergency Responder Group	Mayor and his cabinet
Emergency Responder Levels	Senior management

Type of Instruction

Medium	Conference/classroom, TV/VCR, and projection screen
Gov/Contractor	Both

Recommended Class Size Optimum: 10 students, Maximum: 20 students

Course Location/ Facility Dependent No

POC Domestic Preparedness CB Helpline

Address U.S. Army Soldier and Biological Chemical Command, Aberdeen Proving Grounds, MD 21010

Phone Number 1-800-368-6498

Prerequisites A general understanding of the city's emergency management plan.

Comments This course is part of the National Defense Authorization Act for FY96, Title XIV Defense Against Weapons of Mass Destruction Preparedness Training Program which include Senior Officials' Workshop, Employee Basic Awareness Video, Responder Awareness, Responder Operations, Incident Command, Technician Hazmat, Technician EMS, and Hospital Provider.

Course Title	**NBC Domestic Preparedness Training Technician Emergency Medical Services**
Course Sponsor	DOD/SBCCOM
Course Description	An advanced-level course designed to "train-the-trainers" of Emergency Medical Services responders (e.g., EMT and paramedics) to nuclear, biological and chemical terrorist incidents. Training will be conducted both in the classroom as well as in a practical exercise training area. This course builds on the information presented in the Emergency Responder Awareness course. Length: 8 hours
Course Objectives	Upon completion of the training and appropriate self-study and rehearsal, trainers will be prepared to provide performance-based training in the following areas (specific performance objectives are shown at Appendix A): • Acute health effects of NBC agent exposure. • Recognition of trends indicating possible NBC incident. • Safe and legal antidote administration. • NBC unique triage and mass casualty considerations. • Emergency medical field treatment for NBC agents.
NBC Areas of Competency	1, 2, 2b, 3, 4, 5, 6, 7, 8, 9, 10, 10a, 11, 12, 13, 14, 15, 16, 17, 17a, 18, 19, 20, 21, 22, 23, 24, 25

Target Audience

Military/Civilian/both	Civilian
Emergency Responder Group	Emergency Medical Services (EMT/Paramedics)
Emergency Responder Levels	Technical/Specialist Level

Type of Instruction

Medium	Classroom, TV/VCR, 35 mm slide projector and screen
Gov/Contractor	Both

Recommended Class Size	10-15 students
Course Location/ Facility Dependent	Practical exercise training area approximately 50'x50', and inclement weather alternative
POC	Domestic Preparedness CB Helpline
Address	U.S. Army Soldier and Biological Chemical Command, Aberdeen Proving Grounds, MD 21010
Phone Number	1-800-368-6498
Prerequisites	Specialized experience using the principles of, and familiarity with, the principles and procedures for the EMS response to a HAZMAT incident. Prior training and competency as an instructor.
Comments	This course is part of the National Defense Authorization Act for FY96, Title XIV Defense Against Weapons of Mass Destruction Preparedness Training Program which include Senior Officials' Workshop, Employee Basic Awareness Video, Responder Awareness, Responder Operations, Incident Command, Technician Hazmat, Technician EMS, and Hospital Provider. Up to ten volunteer mock victims (minimum four) required for the practical exercise.

Course Title	**NBC Domestic Preparedness Training Technician Hazmat**

Course Sponsor DOD/SBCCOM

Course Description An advanced-level course designed to "train-the-trainers" of HAZMAT Technician-level emergency responders on nuclear, biological and chemical terrorist incidents. Length: 16 hours

Course Objectives Upon completion of the training and appropriate self-study and rehearsal, trainers will be prepared to provide performance-based training in the following areas (specific performance objectives are shown at Appendix A):

- The NBC terrorist threat.
- Recognizing an NBC incident through signs, symptoms, and trends.
- Chemical and biological agents and types of radiological materials that might be used and relevant terminology.
- Chemical agent terms, symbols, definitions, physical characteristics, technical data, and behavior.
- The physiological and psychological effects of C/B agents and radiological material.
- Immediate first aid and decontamination of each type of NBC hazard.
- Potential dissemination devices.
- Operation and use of field survey instruments and equipment for detection and identification of NBC materials.
- Selection and use of personal protective equipment.
- Implementing decontamination procedures.
- Responder actions at the technician level under the Incident Command System.

NBC Areas of Competency 1, 2, 2b, 3, 4, 5, 6, 7, 8, 9, 10, 10a, 11, 12, 13, 14, 15, 16, 17, 17a, 18, 19, 20, 21, 22, 23, 24, 25

Target Audience

Military/Civilian/both	Civilian
Emergency Responder Group	Hazmat
Emergency Responder Levels	Technical/Specialist Level

Type of Instruction

Medium	Classroom, TV/VCR, 35 mm slide projector and screen
Gov/Contractor	Both

Recommended Class Size 10-15 students

Course Location/ Facility Dependent Well-ventilated practical exercise training area. Area to simulate hot, warm and cold zones; also inclement weather alternative.

POC Domestic Preparedness CB Helpline

Address U.S. Army Soldier and Biological Chemical Command, Aberdeen Proving Grounds, MD 21010

Phone Number 1-800-368-6498

Prerequisites Specialized experience using the principles and procedures for responding to a HAZMAT incident. Prior training and competency as an instructor.

Comments This course is part of the National Defense Authorization Act for FY96, Title XIV Defense Against Weapons of Mass Destruction Preparedness Training Program which include Senior Officials' Workshop, Employee Basic Awareness Video, Responder Awareness, Responder

Operations, Incident Command, Technician Hazmat, Technician EMS, and Hospital Provider. Upon completion of this course, the trainers have satisfied the Incident Command Course prerequisites.

Course Title	**NBC Domestic Preparedness Training Hospital Provider**
Course Sponsor	DOD/SBCCOM
Course Description	An advanced-level course designed to "train-the-trainers" of hospital providers (e.g., emergency department physicians, nurses) treating victims of nuclear, biological and chemical terrorist incidents. It will include the same subjects as the Technician-Emergency Medical Service course, but at a more advanced level. Training will consist of lecture, demonstration and case studies. Length: 8 hours
Course Objectives	Upon completion of the training and appropriate self-study and rehearsal, trainers will be prepared to provide training in the following areas (specific performance objectives are shown at Appendix A): • Acute health effects of NBC agent exposure. • Recognition of trends indicating possible NBC incident. • Safe and legal antidote administration. • NBC unique triage and mass casualty considerations. • Decontamination of victims. • Emergency medical treatment for NBC agents. • Unique public health guidelines.
NBC Areas of Competency	1, 2, 2b, 3, 4, 5, 6, 7, 8, 9, 10, 10a, 11, 12, 13, 14, 15, 16, 17, 17a, 18, 19, 20, 21, 22, 23, 24, 25
Target Audience	
Military/Civilian/both	Civilian
Emergency Responder Group	Emergency Room, Doctors/Nurses
Emergency Responder Levels	Operations Level, Technical/Specialist Level
Type of Instruction	
Medium	Classroom, TV/VCR, 35 mm slide projector and screen
Gov/Contractor	Both
Recommended Class Size	Optimum: 15 students, Maximum: 25 students
Course Location/ Facility Dependent	No
POC	Domestic Preparedness CB Helpline
Address	U.S. Army Soldier and Biological Chemical Command, Aberdeen Proving Grounds, MD 21010
Phone Number	1-800-368-6498
Prerequisites	Understanding of, and familiarity with, the principles and procedures for the hospital response to a HAZMAT incident. Prior training and competency as an instructor.
Comments	This course is part of the National Defense Authorization Act for FY96, Title XIV Defense Against Weapons of Mass Destruction Preparedness Training Program which include Senior Officials' Workshop, Employee Basic Awareness Video, Responder Awareness, Responder Operations, Incident Command, Technician Hazmat, Technician EMS, and Hospital Provider. Upon completion of this course, the trainers have satisfied the Incident Command Course prerequisites.

Course Title **Operational Radiation Safety**

Course Sponsor	U.S. Army Chemical School
Course Description	The Operational Radiation Safety Course contains formal training on general radiation safety procedures. It includes the following topics: properties of nuclear and machine radiation; detection and measurement of radiation; principles and practice of radiation shielding techniques; RADIAC instrumentation (including operation, calibration, and limitations), and applicable Federal and Army regulations for management of radiation sources. Length: 40 hours
Course Objectives	Course terminal learning objectives include Fundamentals of Nuclear Radiation; Radiation Quantities and Units; Biological effects of Ionizing Radiation; Basics of Radiation Detection; RADIAC Instruments; Shielding of Ionizing Radiation; Exposure Guidance; Transportation of Radioactive material; Radiation Survey/ Monitoring and Wipe/Leak Test; Identification and Handling of Radioactive Items; Safe Handling, Storage, Control, and Reporting of Radioactive Material; Depleted Uranium; and Radiation Accidents and Decontamination. Upon completion of the course, an individual is qualified to perform the duties of a local radiological protection officer for specific items of radioactive material (i.e., moisture density gauge).
NBC Areas of Competency	1-9, 11, 13, 16-18, 25, 26 (all for the Nuclear Component Only)

Target Audience

Military/Civilian/both	Both
Emergency Responder Group	Any group having detection equipment
Emergency Responder Levels	Operations Level and Technician Level

Type of Instruction

Medium	Lecture and practical exercise
Gov/Contractor	Government

Recommended Class Size	25-30
Course Location/ Facility Dependent	Yes. (Due to radiation lab requirements)
Course Availability	Within 30 days
Cost (Does not include billeting)	$362 per person and travel, lodging and meal costs
POC	Mr. Michael Sheheane
Address	U.S. Army Chemical School, ATTN: ATZN-CMN-L, Ft. McClellan, AL 36205
Phone Number	(205) 848-4814
Comments	Does not address the Chemical/Biological components. A minimum of 70% is required to pass the course.

Course Title	**Preparing for and Managing the Consequences of Terrorism**

Course Sponsor	National Interagency Civil-Military Institute
Course Description	This course trains civilian emergency managers, first responders and military personnel to work together in planning and conducting emergency responses to terrorism. Includes practical exercises. Length: 5 days
Course Objectives	• *Understand* Weapons of Mass Destruction (WMD) • *Understand* the Strategic Approach to Managing Terrorism • Conducting Risk and Vulnerability Assessments
NBC Areas of Competency	1, 3, 4, 11, 16

Target Audience

Military/Civilian/both	Both
Emergency Responder Group	Firefighter/HAZMAT, Incident Commanders
Emergency Responder Levels	Awareness Level, Operational Level

Type of Instruction

Medium	Classroom, paper-based, video and practical exercise
Gov/Contractor	Both

Recommended Class Size	55
Course Location/ Facility Dependent	NICI, San Luis Obispo, California No
Course Availability	Five to six iterations per year (see www.nici.org for details)
Cost	$95.00 registration fee (covers all lunches and two evening social events). All other costs (travel, lodging and other meals) are the responsibility of the student.

POC	Lieutenant Colonel Sam Heady
Address	NICI, P.O. Box 4209, San Luis Obispo, CA 93403
Phone Number	(805) 782-6740, Fax: (805) 782-6745
Prerequisites	Involvement in organizations that plan for, mitigate, respond to and promote the recovery of acts of terrorism.
Comments	Course is conducted entirely in a classroom setting with group involvement during the conduct of the scenario driven practical applications. Scheduled courses can be found at www.nici.org. This course is the ideal preparation for the "Community Response Emergency Simulation Training Course".

Course Title Radiological Accident Command Control and Coordination (RAC3)

Course Sponsor Defense Nuclear Weapons School (DNWS)

Course Description Provides training in responsibilities and problem resolutions involved in a nuclear weapon accident response:

- Lessons learned from past accidents.
- Federal, state, and local agency responsibilities.
- Key issues specific to a nuclear weapon accident.

Culminates in a practical field exercise--you encounter realistic problems that occur during a nuclear weapon accident response. Length: 5 days

Course Objectives Participants will:

- Identify various potential hazards associated with nuclear accidents.
- Discuss the history of nuclear accidents and the lessons learned.
- Identify DOD nuclear accident response capabilities.
- Identify legal issues and problems associated with a nuclear accident.
- Identify DOE nuclear accident response capabilities.
- Identify hazard assessment information.
- Identify FEMA nuclear accident response capabilities.
- Identify security issues affecting the Commander's Staff.
- Identify state and local nuclear accident response capabilities.
- Discuss public affairs issues affecting the Commander's Staff.
- Discuss medical issues affecting the Commander's Staff.
- Demonstrate the ability to resolve nuclear accident scenarios.

NBC Areas of Competency 6, 7, 11, 14, 17, 18, 21, 26

Target Audience

Military/Civilian/both	Military, DOD Civilian, Civil Authorities
Emergency Responder Group	Other (Senior Military Officers)
Emergency Responder Levels	Senior Management Level

Type of Instruction

Medium	Classroom, Practical Exercise, Videos
Gov/Contractor	Government (Delivered by)

Course Location/ Facility Dependent No

POC Captain Bobb

Address Defense Nuclear Weapons School, Kirtland AFB, New Mexico 87117-5000

Phone Number (505) 853-0190

Prerequisites Military E-7 to O-6; DOD civilians, GS-9 and above. SECRET clearance with access to restricted data.

Comments A mobile training team version of this course is available. A field uniform and protective mask are required. Does not cover the chemical/biological components.

Course Title Radiological Emergency Team (RETOPS) Operations

Course Sponsor Defense Nuclear Weapons School (DNWS)

Course Description Field exercises involving alpha contamination and gamma radiation provides realistic scenarios for students to practice lessons. Course emphasis is on nuclear components and related materials which present special problems in accident and incident situations; characteristics, operation, functions, and construction of selected radiac equipment used for the detection of radiation; characteristics and hazards of radioactive materials; problems associated with nuclear accidents and incidents; and NET operations. Length: 2 weeks

Course Objectives Participants will:

- Describe basic nuclear physics, biological effects and protection from exposure to radiation.
- Identify potential hazards and explain how to protect oneself from these hazards.
- Describe federal response plans and capabilities.
- Demonstrate the use of radioactivity monitoring instruments.
- Explain dosimetry and the use of a dosimeter.
- Identify principles for collecting airborne radioactivity samples.
- Demonstrate accident patterns and plotting.
- Demonstrate the ability to properly don anti-C clothing and procedures for cleaning, inspecting, and proper wear of respiratory protection.
- Demonstrate the setup and operation of a contamination control station.

NBC Areas of Competency 6, 7, 8, 12, 14, 17, 18

Target Audience

Military/Civilian/Both	Military
Emergency Responder Group	Other (Emergency Team Members)
Emergency Responder Levels	Operations Level, Technical/Specialist Level

Type of Instruction

Medium	Classroom, practical exercise, and video
Gov/Contractor	Government

Course Location/ Facility Dependent No

POC Captain Bobb

Address Defense Nuclear Weapons School, Kirtland AFB, New Mexico 87117-5669

Phone Number (505) 853-1425

Prerequisites Membership on an Emergency Team, field uniform w/protective mask, and calculator (optional)

Comments A mobile training team version of this course is available. Does not cover the chemical/biological components.

Course Title **Radiological Hazards Training Course**

Course Sponsor	Defense Nuclear Weapons School (DNWS)
Course Description	A course which provides training for medical service officers and enlisted personnel in the organization and function of nuclear weapon accident response. An historical overview of selected nuclear weapons accidents and incidents; hazards related to weapons accidents; response organizations and specialized capabilities; medical aspects and procedures for radiation accident victims; operation of radiation detection equipment, monitoring procedures, and associated protective measures. Length: 4 days
Course Objectives	Participants will: • Explain the structure of the atom, the type of radiation, and their origin. • Describe the physical principles of nuclear weapons. • Identify potential hazards and explain how to protect oneself from hazards present at a nuclear weapons accident site. • Discuss the history of nuclear accidents and incidents. • Describe federal response plans and capabilities. • Explain the medical aspects of exposure to radiation. • Demonstrate the ability to properly don anti-C clothing and set up a contamination control station. • Demonstrate the proper use of respiratory protection. • Demonstrate the use of radioactivity monitoring and sampling equipment. • Explain procedures for handling patients contaminated with radioactivity. • Describe pre-hospital and hospital response to a nuclear accident.
NBC Areas of Competency	2, 6, 7, 8, 11, 13, 14, 18, 20, 23

Target Audience

Military/Civilian/both	Military
Emergency Responder Group	Emergency Medical Services (e.g., EMT, Paramedic), Emergency Room Doctors/Nurses
Emergency Responder Levels	EMS Level

Type of Instruction

Medium	Classroom, practical exercise, and video
Gov/Contractor	Government

Course Location/ Facility Dependent	No
POC	Captain Keller
Address	Defense Nuclear Weapons School, Kirtland AFB, New Mexico 87117-5669
Phone Number	(505) 853-0187
Prerequisites	None
Comments	Field uniform and protective mask required. Does not cover the chemical/biological components.

Course Title **Toxic Aid Automated Training**

Course Sponsor	DOD/SBCCOM
Course Description	This course is a multimedia toxic aid software delivered course for both orientation and refresher training of chemical surety laboratory workers. It provides training information on both chemical and surety material decontamination and toxic aid information. The purpose of the training package is to provide SBCCOM with a software alternative to the current classroom instruction and to also provide the government with a mechanism for determining work proficiency in critical areas. The training program combines full motion video with several interactive sessions. It takes about an hour to complete the training and the testing. If an employee feels they have the knowledge to successfully complete the test without the training, they can complete the program in less than 15 minutes. There is a scaled down version (without the multimedia) of the toxic aid software program available. Length: 1 hour
Course Objectives	Student will be able to successfully handle a lab scale (i.e., chemical agent) spill.
NBC Areas of Competency	9, 13

Target Audience

Military/Civilian/both	Both (usually surety operators in chemical agent labs)
Emergency Responder Group	Firefighter/HAZMAT (local fire department)
Emergency Responder Levels	Awareness, Operations Level

Type of Instruction

Medium	Classroom and computer based
Gov/Contractor	Government

Recommended Class Size	Greater than 100
Course Location/ Facility Dependent	No
Course Availability	Immediately
Cost (Does not include billeting)	No charge
POC	Shirley Jones
Address	Technical Director, ATTN: AMSSB-RCB-RS, Aberdeen Proving Ground, MD 21010
Phone Number	(410) 436-2493
Comments	Experience in developing 1st hand chemical safety & health training in interactive format. Could develop tailored training for 1st Responders. Combination of & CD-ROM for practice. All U.S. Army Technical Escort Unit (TEU) personnel, supervisors, have taken this course. Requires video cassette player and computer with CD-ROM drive. Does not cover the nuclear/biological components.

Course Title	**Toxic Chemical Training For Medical Support Personnel**
Course Sponsor	DOD/SBCCOM
Course Description	This course in Edgewood, MD, is designed to prepare the medical staff at chemical weapons depots to more effectively handle their responsibilities. Includes chemical agent chemistry, biological effects, signs and symptoms of exposure, and treatment. Also has extensive information on disaster planning, coordination and training. Has evolved to include off-post Chemical Stockpile Emergency Preparedness Program (CSEPP) activities. Length: 4.5 days
Course Objectives	• Understand chemical agents, their toxic effects and treatment. • Understand and be able to conduct/supervise patient decontamination. • Be able to complete Chemical Accident and Incident Response and Assistance (CAIRA)/Disaster Planning. • Understand and comply with regulatory requirements. • Understand and be able to participate in CAIRA Planning and Response.
NBC Areas of Competency	2, 3, 9, 13, 19-23, 25 26

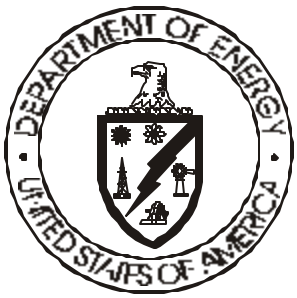
Target Audience

Military/Civilian/both	Both
Emergency Responder Group	Emergency Medical Services (EMT, Paramedic)
Emergency Responder Levels	EMS

Type of Instruction

Medium	Classroom and practical exercise
Gov/Contractor	Government

Recommended Class Size:	Less Than 50
Course Location/ Facility Dependent	No
Course Availability	Within 90 days
Cost (Does not include billeting)	$20,000 per course
POC	LTC Richard Kramp
Address	Cdr., SBCCOM, Attn: AMSSB-SRO, Aberdeen Proving Ground, MD 21010
Phone Number	(410) 436-3163
Comments	Does not cover the nuclear/biological components.



DEPARTMENT OF ENERGY (DOE)

Course Title	**ALARA for Design and Operations Engineers - Instructor Manual**
Course Sponsor	DOE
Course Description	This package is designed to introduce engineers to the fundamentals of radiation and contamination reduction when designing or modifying plant facilities or operations. Key areas of importance include the history and philosophy of ALARA (As Low As Reasonably Achievable); types of radiation; selected topics related to radiation protection; the five basic ALARA principles; applications of ALARA in design; and an example of an ALARA design and operations review program. The DOE Training Resource and Data Exchange Network developed the package. It includes a full set of instructor and participant materials, exercises, an evaluation form, and an examination. Length: self-paced
Course Objectives	There are two "terminal" objectives for the course: • Participants will demonstrate without reference and with 80% accuracy, their knowledge of the ALARA philosophy, types of radiation, seven topics concerning ALARA, and the principles of ALARA used to minimize radiation and contamination. • Participants will demonstrate the application of ALARA principles in design by actively participating in the group exercises in class. There are also separate enabling objectives for each module.
NBC Areas of Competency	6, 8

Target Audience

Military/Civilian/both	Civilian
Emergency Responder Group	Not intended for any of these personnel
Emergency Responder Levels	Awareness Level

Type of Instruction

Medium	Classroom, paper-based and practical exercise
Gov/Contractor	Contractor

Recommended Class Size	Less than 20 (with small groups of 4)
Course Location/ Facility Dependent	No
Cost (Does not include billeting)	TBD
POC	Ms. Denise Viator, Resource Contact
Address	P.O. Box 117 MS 16, Oak Ridge Institute for Science and Education, Oak Ridge, TN 37831-0117
Phone Number	(865) 576-3316
Comments	Instructor Manual available upon request for use by your own in-house instructors. Does not cover the chemical/biological components.

Course Title Applied Health Physics

Course Sponsor	DOE
Course Description	This intensive training course consists of lectures and laboratory exercises. Participants spend approximately 40% of their time performing laboratory exercises using radiation detection and measurement equipment. Laboratory exercises complement the health physics principles learned in the lectures. Lecture and laboratory topics include: Radiation Physics, Radiation Detection and Measurement Techniques, Radiation Dosimetry, Radiation Dosimetry, Radiation Biology, Assay Techniques, Shielding and Facility Design, Radioactive Materials Control Techniques, Health Physics Principles, and Environmental Monitoring. Beginning with fundamental principles, each topic progresses to an advanced level. Instruction is fortified with weekly examinations and problem sessions. A final examination is given at the end of the course. Length: 5 weeks
Course Objectives	At the close of this course, participants will be able to demonstrate a working level knowledge of: • Radiological controls, practices, procedures, and theory. • Basic radiation detection methods and principles. • Contamination control, practices, and procedures. • ALARA principles, job planning, and job performance. • The basic construction, operation, and theory of containment and confinement systems. • Various radiation detection, criticality, and contamination monitoring systems and components. • The engineered radiological controls and design criteria.
NBC Areas of Competency	1, 2, 6, 7, 8, 9, 12, 14, 17, 18

Target Audience

Military/Civilian/both	Both
Emergency Responder Group	Not intended for any of these personnel
Emergency Responder Levels	Technician/Specialist Level

Type of Instruction

Medium	Classroom, paper based, video and practical exercise
Gov/Contractor	Government

Recommended Class Size	Less than 20
Course Location/ Facility Dependent	Yes (due to the amount of laboratory equipment required)
Course Availability	Immediately
Cost (Does not include billeting)	$7,475 per person
POC	Mr. Paul Frame, Group Leader
Address	P.O. Box 117 MS 11, Oak Ridge Institute for Science and Education, Oak Ridge, TN 37831-0117
Phone Number	(865) 576-3388
Comments	Does not cover the chemical/biological components.

Course Title Crisis Management Program for Senior Officials

Course Sponsor DOE

Course Description The Crisis Management Program for Senior Officials Course is designed to provide senior officials who function as crisis managers with a basic knowledge of their duties and responsibilities in planning and preparing for a crisis. The program is to be administered by emergency preparedness coordinators/trainers at their own facilities. The program package includes a brochure, a videotape, an assessment tool, presentation and instructor materials for 5 senior management briefing, and suggested follow-up activities following the briefing. The topics for the briefing are:

- Crisis Management in Perspective.
- Phases of a Crisis.
- Strategic Role of the Crisis Manager.
- Constraints and Consequences of a Crisis.
- Crisis Management Stress.

This package is a product of the Training Resources and Data Exchange Network at DOE.
Length: 0.5 days

Course Objectives Program objectives are as follow: (Note these are briefing objectives and therefore not stated in performance terms.)

- Explain how crisis management differs from day-to-day management: spectrum of decision making, decision making differences, strategic perspective, need to plan for crisis management, functions of an Emergency Operations Center (EOC), and need for operational organizational relationships.
- Provide an understanding of the evolution and phases of a crisis, potential crisis categories, different phases of a crisis, and the importance of evaluation after a crisis.
- Develop an understanding of the crisis manager's strategic role: relationship with the media, responsibilities of a crisis manager, information required to make decisions, communications channels needed, crisis management skills, and the media and the media spokesperson.
- Enhance understanding of how important and difficult the role of a decision maker is during a crisis: constraints associated with decision making, major critical decision points, and major consequences of inappropriate action during a crisis.
- Provide knowledge of stress and stress symptoms: define stress, describe symptoms, discuss techniques to manage stress, and discuss post traumatic stress.

NBC Areas of Competency 3, 4, 5

Target Audience

Military/Civilian/both	Civilian
Emergency Responder Group	Public Officials
Emergency Responder Levels	Senior Management Level

Type of Instruction

Medium	Classroom, paper based, video and practical exercise
Gov/Contractor	Government

Recommended Class Size	Less than 20 (with small groups of 4)
Course Location/ Facility Dependent	No
Course Availability	Immediately
Cost (Does not include billeting)	$10,000 per course
POC	Mr. Darrell Lankford, Program Director
Address	P.O. Box 117 MS 11, Oak Ridge Institute for Science and Education, Oak Ridge, TN 37831-0117
Phone Number	(865) 576-4872

Course Title	**Handling of Radiation Accidents by Emergency Personnel**

Course Sponsor	DOE Radiation Emergency Assistance Center and Training Site (REAC/TS)
Course Description	This course is for physicians, nurses, and physician assistants who may be called upon to provide emergency medical service to a radiation accident victim. This course emphasizes the practical aspects of handling a contaminated victim by discussing the fundamentals of radiation, how to detect and measure it, how to prevent the spread of contamination, how to reduce the radiation dose to the victim and attending personnel, and the role of the medical/health physicist in caring for contaminated accident victims. Length: 3.5 days
Course Objectives	• Discuss the concepts of radiation physics and radiobiology that are important in the emergency care of the radiation accident victim. • Select and prepare an appropriate treatment/decontamination area within the hospital and determine staff and patient needs. • Describe contamination control techniques that can be utilized during the emergency care of contaminated radiation accident victims. • Select and correctly use radiological instruments to detect and measure radiation in a simulated contamination incident. • Plan and conduct a radiation accident drill.
NBC Areas of Competency	8a, 13, 19, 20, 21 22

Target Audience

Military/Civilian/both	Both
Emergency Responder Group	Firefighter/HAZMAT, Emergency Medical Services (EMS, Paramedic), Emergency Room Technician, & First Responder Trainers
Emergency Responder Levels	Technician/Specialist Level

Type of Instruction

Medium	Classroom, paper based, and practical exercise
Gov/Contractor	Contractor

Recommended Class Size	Less than 20
Cost (Does not include billeting)	$75 per person

POC	Ms. Gail Mack
Address	(REAC/TS) - Vance Road Facility, Oak Ridge Institute for Science and Education, Oak Ridge, TN 37831-0117
Phone Number	(865) 576-3132
Comments	Does not address the chemical/biological components.

Course Title	**Hazardous Materials Incident Response Operations (HAZWOPER)**

Course Sponsor	DOE
Course Description	This course is designed for personnel who are involved with the investigation and remediation of uncontrolled hazardous waste sites. It is designed for personnel who respond to accidents or releases of hazardous materials and provides information needed to meet the requirements of 29 CFR 1910.120, "Hazardous Waste Operations and Emergency Response". It is also designed so that personnel will be more knowledgeable in hazardous waste site operations, team functions, personnel health and safety, and field monitoring equipment. Length: 40 hours
Course Objectives	• Identify methods and procedures for recognizing, evaluating, and controlling hazardous substances. • Identify concepts, principles, and guidelines to properly protect site and response personnel. • Discuss regulations and action levels to ensure the health and safety of the workers. • Discuss the fundamentals needed to develop organizational structure and Standing Operating Procedures (SOPs). • Demonstrate the selection and use of dermal and respiratory protective equipment and demonstrate the use and calibration of direct-reading air monitoring equipment.
NBC Areas of Competency	1, 2a, 2b, 5, 6, 7, 8, 9, 10, 10a, 11, 13, 18, 22, 25

Target Audience

Military/Civilian/both	Civilian
Emergency Responder Group	Firefighter/HAZMAT, Law Enforcement, Incident Command
Emergency Responder Levels	Awareness Level, Operations Level

Type of Instruction

Medium	Classroom, paper-based, video and practical exercise
Gov/Contractor	Government

Recommended Class Size	Less than 20
Course Location/ Facility Dependent	No
Course Availability	Within 30 days
Cost (Does not include billeting)	TBD
POC	Ms. Shadonna Frier
Address	Training, U.S. Department of Energy, 1000 Independence Avenue, SW, Washington, DC 20585
Phone Number	(202) 426-1350
Comments	Course requires video cassette player.

Course Title Health Physics for the Industrial Hygienist

Course Sponsor	DOE
Course Description	This laboratory/lecture course covering basic radiation concepts enhances the understanding of industrial hygiene professionals related to environmental/occupational radiation protection, safety, measurements, and assessment. Lectures include a description of radiation sources, interactions, detection, and biological effects. Laboratory exercises stress radiation detection and survey techniques using portable instrumentation. Length: 1 week
Course Objectives	At the close of this course, participants will be able to demonstrate knowledge of: • Radiological controls, practices, procedures, and theory. • Basic radiation detection methods and principles. • Contamination control, practices, and procedures. • ALARA principles, job planning and job performance.
NBC Areas of Competency	2, 2b, 6, 7, 8, 9, 12, 14, 17, 18

Target Audience

Military/Civilian/both	Both
Emergency Responder Group	Not intended for any of these groups
Emergency Responder Levels	Awareness Level, Operations Level, EMS Level

Type of Instruction

Medium	Classroom, paper based and practical exercise
Gov/Contractor	Contractor

Recommended Class Size	Less than 20
Course Location/ Facility Dependent	Yes (due to the amount of laboratory equipment)
Course Availability	Immediately
Cost (Does not include billeting)	$1,495 per person
POC	Mr. Paul Frame, Group Leader
Address	P.O. Box 117 MS 11, Oak Ridge Institute for Science and Education, Oak Ridge, TN 37831-0117
Phone Number	(865) 576-3388
Comments	Does not address the chemical/biological components.

Course Title Health Physics in Radiation Accidents

Course Sponsor	DOE Radiation Emergency Assistance Center and Training Site (REAC/TS)
Course Description	This course is for health physicists and radiation protection technologists who may be called upon to respond to accidents involving radioactive materials and injury to personnel. The major topics covered are radiological emergency procedures and the role of the health physicist in a medical environment. Length: 4.5 days
Course Objectives	• Explain the role of the health physicist in assisting medical/paramedical personnel during emergency or long-term care of the radiation accident victim. • List the components of pre-hospital and hospital emergency planning and describe any modifications required for radiation accident response. • During a simulated radiation accident exercise, demonstrate the ability to advise a medical response team regarding contamination control, protective actions, radioassay results, and the efficiency of decontamination procedures. • Demonstrate the ability to identify "unknown" radioactive contaminants during a radiation exercise. • Name sources of assistance that are available during real or presumed radiation accidents.
NBC Areas of Competency	1-4, 11, 14, 17, 25, 26

Target Audience

Military/Civilian/both	Both
Emergency Responder Group	Emergency Medical Services (EMS, Paramedic, Emergency Room Technician, Doctors and Nurses) & First Responder Trainers
Emergency Responder Levels	Technician/Specialist Level

Type of Instruction

Medium	Classroom, paper based, and practical exercise
Gov/Contractor	Contractor

Recommended Class Size	Less than 20
Course Location/ Facility Dependent	No
Course Availability	Within 30 days
Cost (Does not include billeting)	$90 per person
POC	Ms. Gail Mack, REAC/TS
Address	P.O. Box 117 MS 39, Oak Ridge Institute for Science and Education, Oak Ridge, TN 37831-0117
Phone Number	(865) 576-3132
Comments	Does not address the chemical/biological components.

Course Title Introduction to Radiation Safety

Course Sponsor DOE

Course Description This laboratory/lecture course introduces the health concerns and safety procedures required for users of radionuclides. Lectures include a description of radiation sources, interactions, detection, and biological effects. Laboratory exercises stress radiation detection and measurement techniques using both fixed and portable instrumentation. Length: 1 week

Course Objectives At the close of this course, participants will be able to demonstrate knowledge of:

- Radiological controls, practices, procedures, and theory.
- Basic radiation detection methods and principles.
- Contamination control, practices, and procedures.
- ALARA principles, job planning, and job performance.

NBC Areas of Competency 2, 6, 7, 8, 17

Target Audience

Military/Civilian/both	Both
Emergency Responder Group	Not intended for any of these groups
Emergency Responder Levels	Awareness Level, Operations Level, EMS Level

Type of Instruction

Medium	Classroom, paper based and practical exercise
Gov/Contractor	Contractor

Recommended Class Size Less than 20

Course Location/ Facility Dependent Yes (due to the amount of laboratory equipment)

Course Availability Immediately

Cost (Does not include billeting) $1,495 per person

POC Mr. Paul Frame, Group Leader

Address P.O. Box 117 MS 11, Oak Ridge Institute for Science and Education, Oak Ridge, TN 37831-0117

Phone Number (865) 576-3388

Comments Does not address the chemical/biological components.

Course Title Medical Planning and Care in Radiation Accidents

Course Sponsor	DOE Radiation Emergency Assistance Center and Training Site (REAC/TS)
Course Description	This course is designed for physicians and physician assistants and presents an advanced level of information on the diagnosis and treatment of acute local and total body radiation exposure, internal and external contamination, combined injuries, and multi-casualty incidents involving ionizing radiation. Length: 4.5 days
Course Objectives	• Discuss the concepts of radiation physics and radiobiology that are of importance in medical planning and care of the radiation accident victim. • Given hypothetical situations, select appropriate treatment protocols for: a patient suffering the acute radiation syndrome, a patient with a partial body radiation injury, an externally contaminated, injured patient, a patient internally contaminated with radioactive material. • Given a hypothetical radiation accident situation, correctly define and assess the public health problem and determine the priorities in medical management. • List the essential elements of a hospital's response plan for radiation emergencies and describe ways of adapting disaster plans for multiple casualties in a radiation emergency. • Discuss the impact of human psychology on disaster response.
NBC Areas of Competency	21, 25, 26

Target Audience

Military/Civilian/both	Civilian
Emergency Responder Group	Emergency Medical Services (EMS, Paramedic, Emergency Room Technician, Doctors and Nurses) & First Responder Trainers
Emergency Responder Levels	EMS Level

Type of Instruction

Medium	Classroom, paper based, and practical exercise
Gov/Contractor	Contractor

Recommended Class Size	Less than 20
Cost (Does not include billeting)	$90 per person
POC	Ms. Gail Mack
Address	(REAC/TS) - Vance Road Facility, Oak Ridge Institute for Science and Education, Oak Ridge, TN 37831-0117
Phone Number	(865) 576-3132
Comments	Does not address the chemical/biological components.

Course Title	***Modular Emergency Response Radiological Transportation Training Block 1A:* First Responders At the Scene of a Transportation Incident Involving Radiological Materials**
Course Sponsor	DOE
Course Description	Comprised of four modules (Module 1: Radiological Basics, Module 2: Biological Effects of Ionizing Radiation, Module 3: Hazard Recognition, and Module 4: Initial Response Actions), this block provides basic radiological information to help first responders who have been trained to the "awareness" level. This block focuses on initial actions first responders should take when arriving on scene of a transportation incident involving radioactive materials. This block presents details on radiation and contamination then reviews the DOT standard package marking, labeling, and vehicle placarding used for radioactive materials. It also includes instructions on the use of the U.S. DOT North American Emergency Response Guidebook (NAERG) during the initial stages of a response. This block provides the fundamentals needed to initiate a safe response without entering the scene of a transportation incident involving radiological materials. Length: 3 hours (30-45 minutes/module)
Course Objectives	After completing the four modules in this block, the student will be able to do the following: • Define ionizing radiation. • Define radioactive material. • Identify common sources of radiation and radioactive material. • Define radioactivity. • Distinguish between radiation and contamination. • Define radioactive contamination. • Define acute radiation doses. • Define chronic radiation doses. • Identify ways that radioactive material (RAM) can enter the body. • Identify the potential health effects of radiation exposure. • Identify vehicle placards used on RAM shipments. • Identify labels on RAM packages/containers used to indicate the presence of RAM. • Identify markings on packages used to transport radioactive materials • Identify actions to control an incident scene. • Discuss differing medical priorities at a RAM incident versus transportation incidents involving other hazardous materials. • Identify actions to prioritize medical care. • Describe initial response actions that the first on-scene responder should perform at the scene of a RAM incident. • Use the information on the shipment placard to locate in the NAERG the response guide for RAM. • Use the UN identification number or the material name to locate in the NAERG the response guide for RAM. • Identify actions to isolate an incident scene.
NBC Areas of Competency	4, 5, 7, 8, 11, 12, 13
Type of Instruction	

Medium	Instructor-led, classroom setting with visual aids and manuals, and self study with student manuals
Recommended Class Size	20-25
Course Availability	Immediately
Cost (Does not include billeting)	No cost
POC	Ella McNeil, TEPP Program Manager
Address	19901 Germantown Road, EM-24/CLOV, Germantown, Maryland 20874
Phone Number	(301) 903-7284

Course Title ***Modular Emergency Response Radiological Transportation Training Block 1B:* First Responders Entering Transportation Incident Scene Involving Radiological Materials to Perform Rescue Only**

Course Sponsor DOE

Course Description Comprised of six modules (*Module 1: Radiological Basics, Module 2: Biological Effects of Ionizing Radiation, Module 3: Hazard Recognition, Module 4: Initial Response Actions, Module 5: RAM Shipping Packages, and Module 6: Patient Handling*), this block supplements hazardous materials training given to first responders. This block focuses on initial actions first responders should take when arriving on scene of a transportation incident involving radioactive materials. This block presents details on radiation and contamination then reviews the DOT standard package marking, labeling, and vehicle placarding used for radioactive materials. It also includes instructions on the use of the U.S. DOT North American Emergency Response Guidebook (NAERG) during the initial stages of a response. This block provides the fundamentals needed to initiate a safe response to transportation incidents involving radiological materials.

This block also provides information about identifying packages used to transport radioactive materials. In Module 6, information about three general classes of patients encountered at a transportation incident involving RAM is presented. This module describes procedures for safely rescuing and handling patients at the incident scene. Length: 4½ hours (30-45 minutes/module)

Course Objectives After completing the six modules in this block, the student will be able to do the following:

- Define ionizing radiation.
- Define radioactive material.
- Identify common sources of radiation and radioactive material.
- Define radioactivity.
- Distinguish between radiation and contamination.
- Define radioactive contamination.
- Define acute radiation doses.
- Define chronic radiation doses.
- Identify ways that radioactive material (RAM) can enter the body.
- Identify the potential health effects of radiation exposure.
- Identify vehicle placards used on RAM shipments.
- Identify labels on RAM packages/containers used to indicate the presence of RAM.
- Identify markings on packages used to transport radioactive materials
- Identify actions to control an incident scene.
- Discuss differing medical priorities at a RAM incident versus transportation incidents involving other hazardous materials.
- Identify actions to prioritize medical care.
- Describe initial response actions that the first on-scene responder should perform at the scene of a RAM incident.
- Use the information on the shipment placard to locate in the NAERG the response guide for RAM.
- Use the UN identification number or the material name to locate in the NAERG the response guide for RAM.
- Identify actions to isolate an incident scene.
- Identify the risks associated with various shipping packages.

- List examples of RAM that are shipped in various packages.
- Identify types of packages used in the transport of RAM.
- Assess the risks to response personnel when rescuing injured persons at a RAM transportation incident.
- Prepare patients who need to be transported to the hospital after a RAM incident.

NBC Areas of Competency	4, 5, 7, 8, 11, 12, 13, 17a, 19, 21
Type of Instruction	
Medium	Instructor-led, classroom setting with visual aids and manuals, and self study with student manual
Recommended Class Size	20 to 25
Course Availability	Immediately
Cost (Does not include billeting)	No cost
POC	Ella McNeil, TEPP Program Manager
Address	19901 Germantown Road, EM-24/CLOV, Germantown, Maryland 20874
Phone Number	(301) 903-7284

Course Title	***Modular Emergency Response Radiological Transportation Training Block 2A:* First Responders Enter Transportation Incident Scene Involving Radiological Materials to take Defensive Actions**
Course Sponsor	DOE
Course Description	This block consists of four modules (*Module 5: RAM Shipping Packaging, Module 6: Patient Handling, Module 7: Information Resources, and Module 8: Scene and Incident Control*). This block provides supplemental training for responders who have been trained to the "operations" level. It provides information about identifying packages used to transport radioactive materials. The resources (e.g., package markings, shipping papers, federal and state agencies) that can be of assistance to first responders are discussed in detail. This block also covers the methods used to control the spread of contamination and to reduce exposure. In Module 6, information about three general classes of patients encountered at a transportation incident involving RAM is presented. This module describes procedures for safely rescuing and handling patients at the incident scene. Length: 3 hours (30-45 minutes/module)
Course Objectives	After completing the four modules in this block, the student will be able to do the following: • Identify the risks associated with various shipping packages. • List examples of RAM that are shipped in various packages. • Identify types of packages used in the transport of RAM. Assess the risks to response personnel when rescuing injured persons at a RAM transportation incident. • Prepare patients who need to be transported to the hospital after a RAM incident. Identify information sources that can provide first responders with details about a RAM shipment. • Identify Federal resources that provide assistance to on-scene responders. • Identify state resources that provide assistance to on-scene responders. • Identify ways to protect on-scene personnel from radiological contamination at the scene of a transportation incident involving RAM. • Describe ways to control the spread of contamination while taking defensive measures to limit impacts of an incident involving RAM. • Identify factors to consider when implementing public protective actions at the scene of a transportation incident involving RAM. • Identify factors to consider when implementing crowd control at the scene of a transportation incident involving RAM.
NBC Areas of Competency	4, 5, 7, 8, 11, 12, 13, 17, 17a, 19, 20, 21, 22
Type of Instruction	
Medium	Instructor-led, classroom setting with visual aids and manuals, and self study with student manual
Recommended Class Size	20 to 25

Course Availability	Immediately
Cost (Does not include billeting)	No cost
POC	Ella McNeil, TEPP Program Manager
Address	19901 Germantown Road, EM-24/CLOV, Germantown, Maryland 20874
Phone Number	(301) 903-7284

Course Title ***Modular Emergency Response Radiological Transportation Training Block 2B:* First Responders Enter Transportation Incident Scene Involving Radiological Materials and Do Gross Monitoring**

Course Sponsor DOE

Course Description This block has five modules (*Module 7: Information Resources, Module 8: Scene and Incident Control, Module 9: Radiological Terminology and Units, Module 10: Radiological Instrumentation,* and *Module 11: Assessing Package Integrity*). This block provides supplemental training for responders who have been trained to the "operations/technicians" level. The materials describe how to identify packages used to transport radioactive materials and determine the radiation levels associated with the radiation warning labels. Standard terminology used in radiation measurement and radioactive material transportation are introduced. The resources (e.g., package markings, shipping papers, federal and state agencies) that can be of assistance to responders are also discussed in detail. Module 10 outlines radiological survey instruments, their basic functions and limitations, the use of contamination and radiation exposure survey meters, then describes some commonly used dosimetry devices. This block also covers the methods used to control the spread of contamination and to reduce exposure. Length: 3¾ hours (30 - 45 minutes/module)

Course Objectives After completing the five modules in this block, the student will be able to do the following:

- Identify information sources that can provide first responders with details about a RAM shipment.
- Identify Federal resources that provide assistance to on-scene responders.
- Identify state resources that provide assistance to on-scene responders.
- Identify ways to protect on-scene personnel from radiological contamination at the scene of a transportation incident involving RAM.
- Describe ways to control the spread of contamination while taking defensive measures to limit impacts of an incident involving RAM.
- Identify factors to consider when implementing public protective actions at the scene of a transportation incident involving RAM.
- Identify factors to consider when implementing crowd control at the scene of a transportation incident involving RAM.
- Describe the correct application of radiation exposure survey meters.
- Identify common types of radiological survey instruments.
- Identify the basic functions of common radiological survey instruments.
- Describe the correct application of contamination exposure survey meters.
- Identify commonly used dosimeter devices.
- Identify limitations of common radiological survey instruments.
- Identify the terms used to measure radiation.
- Identify four basic types of ionizing radiation.
- Identify terminology associated with shipments of RAM.
- Identify common shipping names used for RAM.
- Identify the terms used to measure radioactivity.
- Identify acronyms associated with RAM shipments
- Identify the importance of the transport index in determining package integrity.
- Identify radiation levels associated with the various radiation-warning labels.
- Identify the maximum radiation levels expected on shipping containers.

- Identify the maximum radiation levels expected on shipping vehicle surfaces.

NBC Areas of Competency	4, 5, 7, 8, 11, 12, 13, 17, 17a, 18
Type of Instruction	
Medium	Instructor-led, classroom setting with visual aids and manuals, and self study with student manual
Recommended Class Size	20 to 25
Course Availability	Immediately
Cost (Does not include billeting)	No cost
POC	Ella McNeil, TEPP Program Manager
Address	19901 Germantown Road, EM-24/CLOV, Germantown, Maryland 20874
Phone Number	(301) 903-7284

Course Title	***Modular Emergency Response Radiological Transportation Training Block 3A:* Responders Enter Transportation Incident Scene Involving Radiological Materials to Take Offensive Actions**
Course Sponsor	DOE
Course Description	This block has five modules (*Module 9: Radiological Terminology and Units, Module 10: Radiological Instrumentation, Module 11: Assessing Package Integrity, Module 12: Tactics and Strategies,* and *Module 13: Decontamination*). This block provides supplemental training for responders who have been trained to the "operations/technicians" level. The block reviews typical RAM packaging and the radiation levels associated with specific radiation warning labels. It discusses ways in which equipment and personnel become contaminated with RAM then describes some field decontamination methods. It also provides information about radiological survey instruments, their basic functions and limitations, the use of contamination and radiation exposure survey meters, and describes some commonly used dosimetry devices. Length: 3 ¾ hours (30-45 minutes/module)
Course Objectives	After completing the five modules in this block, the student will be able to do the following: • Identify the terms used to measure radiation. • Identify four basic types of ionizing radiation. • Identify terminology associated with shipments of RAM. • Identify common shipping names used for RAM. • Identify the terms used to measure radioactivity. • Identify acronyms associated with RAM shipments • Describe the correct application of radiation exposure survey meters. • Identify common types of radiological survey instruments. • Identify the basic functions of common radiological survey instruments. • Describe the correct application of contamination exposure survey meters. • Identify commonly used dosimeter devices. • Identify limitations of common radiological survey instruments. Identify the importance of the transport index in determining package integrity. • Identify radiation levels associated with the various radiation-warning labels. • Identify the maximum radiation levels expected on shipping containers. • Identify the maximum radiation levels expected on shipping vehicle surfaces. • Identify how tools become contaminated with RAM. • Identify how personnel become contaminated with RAM. • Identify how apparatus become contaminated with RAM. • Identify field decontamination practices for equipment. • Identify field decontamination practices for personnel. • Identify how PPE become contaminated with RAM. • Describe the reasons for establishing hot, warm, and cold zones at the scene of a transportation incident involving RAM. • Describe the methods for implementing radiological controls at the scene of a transportation incident involving RAM. • Describe considerations for selecting PPE for responders working at the scene of a transportation incident involving RAM.
NBC Areas of	

Competency	4, 5, 7, 8, 11, 12, 13, 17, 17a, 18
Type of Instruction	
Medium	Instructor-led, classroom setting with visual aids and manuals, and self study with student manual
Recommended Class Size	20 to 25
Course Availability	Immediately
Cost (Does not include billeting)	No cost
POC	Ella McNeil, TEPP Program Manager
Address	19901 Germantown Road, EM-24/CLOV, Germantown, Maryland 20874
Phone Number	(301) 903-7284

Course Title	***Modular Emergency Response Radiological Transportation Training Block 3B:* Responders on the Offense - Entering Transportation Incident Scene Involving Radiological Materials**
Course Sponsor	DOE
Course Description	This block consists of two modules - *Module 12: Tactics and Strategies* and *Module 13: Decontamination*. Module 12 provides information about the packaging used for radioactive materials. It describes the radiation levels associated with the various radiation warning levels. Module 13 discusses ways in which equipment and personnel become contaminated with radioactive materials. It also describes how to perform field decontamination by using a decontamination station. Length: 1½ hours (30-45 minutes/module)
Course Objectives	After completing the two modules in this block, the student will be able to do the following: • Describe the reasons for and methods of establishing hot, warm, and cold zones at the scene of a transportation incident involving RAM. • Describe the methods for implementing radiological controls at the scene of a transportation incident involving RAM. • Describe considerations for selecting PPE for responders working at the scene of a transportation incident involving RAM. • Identify how personnel, PPE, tools, and apparatus become contaminated with RAM. • Identify field decontamination practices for personnel and equipment.
NBC Areas of Competency	4, 5, 7, 8, 12, 14, 16, 17a, 18
Type of Instruction Medium	Instructor-led, classroom setting with visual aids and manuals, and self study with student manual
Recommended Class Size	20 to 25
Course Availability	Immediately
Cost (Does not include billeting)	No cost
POC	Ella McNeil, TEPP Program Manager
Address	19901 Germantown Road, EM-24/CLOV, Germantown, Maryland 20874
Phone Number	(301) 903-7284

Course Title	***Modular Emergency Response Radiological Transportation Training Block 4: Incident Command of* Transportation Incident Involving Radiological Materials**
Course Sponsor	DOE
Course Description	This block consists of two modules - *Module 14: Incident Commander - Response Phase* and *Module 15: Incident Commander - Recovery Phase.* It covers the actions the Incident Commander considers during the response and recovery phases in response to a transportation incident involving radioactive material. The response phase addresses controlling access to the incident scene, identifying other hazards, and estimating the potential outcome of the incident. It also reviews the event status indicators that permit the transition from response to recovery phase. The information related to the recovery phase provides an overview of recovery planning issues, tactical objectives, and recovery issues. This block supplements information provided in an "operations/technicians' level hazardous materials course. An "Incident Command" level course is recommended prior to attempting this course. Length: 1½ hours (30-45 minutes/module)
Course Objectives	After completing this block, the student will be able to do the following: • Identify actions that must be completed before transition to the recovery phase of an incident involving RAM. • Explain the difference between short-term and long-term recovery activities. • Identify issues that may be of concern during the transition from response to recovery phase. • Identify tactical objectives that the IC should consider when developing a recovery plan. • Identify recovery - planning issues that must be addressed by the IC. • Identify hazards that the IC should assess before allowing personnel to enter the immediate incident area that involves RAM. • Identify the steps an incident commander should take at the scene of an incident involving RAM. • Identify external agencies available to provide assistance to the IC at an incident that involves RAM. • Identify actions necessary for controlling access to an incident involving RAM. • Identify actions and other considerations that the IC should assess before allowing personnel to enter the immediate incident area that involves RAM.
NBC Areas of Competency	3, 4, 5, 7, 8, 11, 12, 14, 16, 17a, 18, 25, 26
Type of Instruction Medium	Instructor-led, classroom setting with visual aids and manuals, and self study with student manual
Recommended Class Size	20 to 25
Course Availability	Immediately
Cost (Does not include billeting)	No cost

POC	Ella McNeil, TEPP Program Manager
Address	19901 Germantown Road, EM-24/CLOV, Germantown, Maryland 20874
Phone Number	(301) 903-7284

Course Title ***Modular Emergency Response Radiological Transportation Training Block 5: Public Information Officer – Handling a*** **Transportation Incident Involving Radiological Materials**

Course Sponsor	DOE
Course Description	This block consists of *Module 16: Public Information Officer*. It provides information about the role of the Public Information Officer during transportation incidents involving RAM. This module discusses public concerns and perceptions about incidents involving radioactive materials. It provides instructions for developing basic messages for delivering to the media and the general public. The module also identifies emergency public information sources that are available to support an incident response and agencies that may require public information coordination. Length: 30-45 minutes
Course Objectives	After completing this block, the student will be able to do the following: • Identify basic messages that should be delivered to the general public during a transportation incident involving RAM. • Identify public concerns about incidents involving RAM. • Identify basic messages that should be delivered to the media during a transportation incident involving RAM. • Identify emergency public information sources available to support an incident response. • Identify public perceptions about incidents involving RAM. • Identify agencies that will require public information coordination during a response to an incident involving RAM.
NBC Areas of Competency	5
Type of Instruction Medium	Instructor-led, classroom setting with visual aids and manuals, and self study with student manual
Recommended Class Size	20 to 25
Course Availability	Immediately
Cost (Does not include billeting)	No cost
POC	Ella McNeil, TEPP Program Manager
Address	19901 Germantown Road, EM-24/CLOV, Germantown, Maryland 20874
Phone Number	(301) 903-7284

Course Title Occupational Health in Nuclear Facilities

Course Sponsor DOE Radiation Emergency Assistance Center and Training Site (REAC/TS)

Course Description This course is for physicians, nurses, physician assistants, and others who provide occupational health care to employees of government nuclear industries. This course presents information on basic radiation sciences, health surveillance and evaluations, on-site emergency management of injuries, and medical implications of chemical, physical, biological, social, and psychological stresses on the ability to work. Additional topics include interdepartmental relationships and medical, legal, and ethical issues of concern to health professionals in nuclear facilities. Length: 4.5 days

Course Objectives

- Select and correctly use a survey instrument to detect and measure radioactivity.
- Describe the role of the physician/nurse in accident investigation and litigation.
- Given a simulated single or multiple casualty accident involving radioactive materials in the industrial setting:
    - triage and administer emergency aid at the accident scene, while limiting the spread of contamination.
    - decontaminate and treat the injured victims.
    - determine the need for and correctly select the appropriate therapy for patients sustaining internal contamination with radioactive materials.
    - counsel the involved workers regarding the long-term medical consequences of the radiation exposure.

NBC Areas of Competency 3, 13, 18-23

Target Audience

Military/Civilian/both	Both
Emergency Responder Group	Emergency Medical Services (EMS, Paramedic, Emergency Room Technician, Doctors and Nurses) & First Responder Trainers
Emergency Responder Levels	Awareness Level, Operations Level

Type of Instruction

Medium	Classroom, paper-based, and practical exercise
Gov/Contractor	Contractor

Recommended Class Size Less than 20

Cost (Does not include billeting) $90 per person

POC Ms. Gail Mack

Address (REAC/TS) - Vance Road Facility, Oak Ridge Institute for Science and Education, Oak Ridge, TN 37831-0117

Phone Number (865) 576-3132

Comments Meets radiological first aid procedures and principles of triage requirements. Does not address the chemical/biological components.

Course Title Radioactive Material Basics for Emergency Responders

Course Sponsor DOE

Course Description This course is designed to provide emergency first response personnel with a clear understanding of the knowledge and application of radiation protection principles. The purpose of the course is to provide basic information on radioactive materials for emergency responders who would respond to a transportation incident involving radiological materials. This course will explain what radioactive materials are, what the different types of radiation are, common terms, definitions, where you might encounter them, how radioactive materials could potentially harm you, and four steps you can use to minimize your risk at an incident scene. Length: 10 hours total (2 hours self-study, 8 hours facilitated)

This course is currently undergoing revisions following pilot testing. The following modules are anticipated:

1. Putting Radioactive Materials into Perspective.
2. Understanding What Radioactive Materials Are.
3. Detecting, Measuring, and Assessing the Hazards of Radioactive Materials.
4. Identifying Radioactive Materials in Transportation.
5. Responding to the Radioactive Material Incident.

Course Objectives

- Recognize radioactive materials and identify four common types.
- Define common radiological terms.
- Recognize the hazards associated with the different types of radiation.
- Identify the steps to maximize your safety and effectiveness in a transportation incident.
- Be confident in recognizing and identifying radiological materials in transportation by their placards, labels, and shipping papers.

NBC Areas of Competency 1, 2, 2a, 6-8, 9, 12, 14, 15, 17, 18

Target Audience

Military/Civilian/both	Both
Emergency Responder Group	Firefighter/HAZMAT, Law Enforcement, Incident Commanders & First Responder Trainers
Emergency Responder Levels	Awareness Level, Operations Level, EMS Level

Type of Instruction

Medium	Classroom, paper based, video, practical exercise, teleconference or combination
Gov/Contractor	Contractor

Recommended Class Size Less than 20

Course Location/ Facility Dependent No

Course Availability Within 3 months

Cost (Does not include billeting) $1,000 per course

POC	Ms. Ella McNeil
Address	DOE/EM-76/GTN/Cloverleaf Bldg., Rm. 1066, U .S. Department of Energy, 1000 Independence Avenue, SW, Washington, DC 20585
Phone Number	(301) 903-7284
Comments	Requires video cassette player. Does not address the chemical/biological components.

Course Title Radiological Emergency Response

Course Sponsor	DOE
Course Description	This laboratory/lecture course introduces the health concerns and safety procedures required for radiological emergency response. Lectures include a description of radiation sources, interactions, detection, biological effects, and emergency response. Participants spend approximately 50% of their time in accident drills which are based on realistic scenario/simulations. Lecture and laboratory topics include: Historical Overview of Radiation Accidents, Radiation Detection, Contamination Surveys, Radiation Protection, Radiation Biology, Regulatory Guidance, Emergency Plans, Emergency Response, and Fires and related emergencies. Length: 1 week
Course Objectives	• Knowledge of basic radiation detection methods and principles. • Knowledge of contamination control, practices, and procedures. • A working level knowledge of health physics and radiation protection to oversee emergency activities and provide guidance in mitigating emergencies. • A working level knowledge of decontamination procedures.
NBC Areas of Competency	2-9, 11-20, 22-26

Target Audience

Military/Civilian/both	Both
Emergency Responder Group	Firefighter/HAZMAT, Emergency Medical Services (EMT, Paramedic) Law Enforcement, and First Responder Trainers
Emergency Responder Levels	Awareness Level, Operations Level, Technician/Specialist Level

Type of Instruction

Medium	Classroom, paper-based, video, and practical exercise
Gov/Contractor	Contractor

Recommended Class Size	Less than 20
Course Location/ Facility Dependent	Yes (due to the amount of laboratory equipment required)
Course Availability	Immediately

POC	Mr. Paul Frame, Group Leader
Address	P.O. Box 117 MS 11, Oak Ridge Institute for Science and Education, Oak Ridge, TN 37831-0117
Phone Number	(865) 576-3388
Comments	Training materials available; course no longer offered. Does not cover the chemical/biological components.

Course Title Transportation Public Information Training

Course Sponsor DOE

Course Description The Transportation Public Information training is a preparation course for U.S. Department of Energy (DOE) and stakeholder personnel at the state, tribal and local levels who need to communicate with the public concerning transportation activities. The training has proven valuable to personnel concerned with public outreach and information, transportation management, emergency management, public safety, radiological incident response, and emergency medical services. The overall goal of the training is to prepare participants to effectively plan for, carry out, and coordinate public information activities in conjunction with safe, routine transportation activities and with transportation incidents involving radioactive materials. Emphasis is placed on ongoing public communication and participation as vital to the success of public information efforts should an incident occur.

Course Objectives

Module 1: DOE Radiological Materials Transportation Programs

At the end of Module 1, participants will be able to:

1.1 Describe key components of the DOE approach to ensuring safe radiological materials transportation activities.

1.2 Describe DOE preparedness for a response to radiological materials transportation incidents, including national assets available for assistance.

1.3 Discuss issues affecting the communication, coordination, and cooperation required in working with other agencies and jurisdictions for planning non-emergency and emergency transportation activities.

1.4 Identify information resources available to assist in transportation public communication activities.

Module 2: Principles of Public Communications and Participation

At the end of Module 2, participants will be able to:

2.1 Discuss key components of effective communication planning.

2.2 Discuss public concerns and perceptions about the transportation of DOE radioactive materials and how to address them.

2.3 List at least five specific ways to earn trust and build credibility.

2.4 List at least three components of an effective informational presentation about the safety and risk of radiological materials and their transport.

2.5 List at least three techniques for working with the media during a shipping campaign or transportation incident.

2.6 List the three components of an effective answer and give at least one example answer to a tough question using the three-part answer presented in the class.

2.7 List at least three techniques for diffusing hostility.

Module 3: Simulation Exercise

At the end of Module 3, participants will be able to:

3.1 Given a scenario for a hypothetical planned shipping campaign, apply public communication and participation principles to the delivery of an informational presentation and a simulated question and answer session.

3.2 Given a scenario for a hypothetical transportation incident, apply public communication principles to the development of a news release and a simulated media interview.

3.3 Discuss issues related to preparing for future shipments following a transportation incident.

NBC Areas of Competency	3, 4, 5, 11, 16, 17a

Target Audience

Military/Civilian/both	Civilian
Emergency Responder Group	Firefighter/HAZMAT, Emergency Medical Services (EMS, Paramedic), Emergency Room Technician, & First Responder Trainers
Emergency Responder Levels	Awareness Level, Operations Level, EMS Level, & Senior Management Levels

Type of Instruction

Medium	Classroom, paper based, video, and practical exercise
Gov/Contractor	Contractor

Recommended Class Size	Less than 50
Course Location/ Facility Dependent	No
Course Availability	Immediately
Cost (Does not include billeting)	$5,000-8,000 per course, (Depending on location)
POC	Ms. Judith Holm
Address	National Transportation Program Office, Albuquerque Operations Office, Pennsylvania and H Street, Kirtland Air Force Base, Albuquerque, New Mexico 87116
Phone Number	(505) 845-4767
E-mail	Jholm@doeal.gov
Comments	Course requires video cassette player for presentation. Does not address the chemical/biological components

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DEPARTMENT OF HEALTH AND HUMAN SERVICES (DHHS)

Department of Health and Human Services
National Institute for Occupational Safety and Health (NIOSH)
Education and Research (ERC)

The National Institute for Occupational Safety and Health (NIOSH) has 15 Education and Research Centers (ERCs) located throughout the United States. Courses are offered by designated schools of public health, environmental health and medicine throughout the United States. Although the NIOSH ERCs do not provide training specific to WMD incidents, these courses provide the base knowledge necessary for future NBC training. Courses are traditionally taught at the graduate level, focusing in the areas of industrial hygiene, occupational safety, medicine and nursing. Previous courses have included, but are limited to, the following:

Hazardous Materials

- Certified Hazardous Materials Manager Review
- Managing Hazardous Materials Incidents
- Hazardous Substances Management and Response: Health & Safety Issues
- Hazardous Materials, OSHA 201A
- Sampling for Hazardous Materials
- Chemical Protective Clothing
- Air Sampling for Toxic Substances

Radiation / Nuclear

- Applied Radiation Protection
- Nuclear Emergency Planning
- Management and Disposal of Radioactive Waste
- Radiation Safety Officer Course
- Radioactivity in the Environment: Risk, Assessment, and Measurement

Biological

- Control of BioHazards in the Research Laboratory
- Ecological Toxicology and Environmental Risk Assessment
- Pesticides: Risk Evaluation & Site Mitigation

Respiratory

- Occupational Respiratory Protection
- Pulmonary Function Testing
- Fit Testing Workshop
- Quantitative Fit Testing

To obtain information about programs currently offered in your area, please contact the nearest NIOSH ERC or visit their website (www.dhhs.gov.niosh/erc). To receive printed information or of you have general questions, please contact the NIOSH Technical Information Line at 1-800-356-4674.

Deep South Center for Occupational Health and Safety
University of Alabama at Birmingham,
School of Public Health
Birmingham, AL 35294-2010

POC – Melinda Sledge

Center for Occupational and Environmental Health
University of California at Berkeley, Richmond Field Station
1301 South 46th Street, Building 102
Richmond, CA 94804

POC – Barbara Plog

205-934-7178

510-231-5645

Southern California Education and Research Center
University of Southern California
1540 Alcazar Street, CHP 236
Los Angeles, CA 900333

POC - Ruth McIntyre-Birkner
323-442-3468

Continuing Education Program, Educational Resource Center – University of Cincinnati
P.O. Box 670056
Cincinnati, OH 45267-0056

POC – Marianne Kautz
800-207-3399

Center for Continuing Professional Education
Harvard School of Public Health
677 Hunnington Avenue
Boston, MA 02115-6023

POC – Daryl Bichel
617-432-3314

The Great Lakes Center for Occupational and Environmental Safety and Health
University of Illinois at Chicago
School of Public Health
2121 West Taylor Street
Chicago, IL 60612-7260

POC – Marylyn Bingham
312-996-6904

Johns Hopkins Education and Research Center
School of Hygiene and Public Health
615 North Wolfe Street
Room 6001
Baltimore, MD 21205

POC – Diane Zerbe
410-955-423

Michigan Education and Research Center
University of Michigan
Center for Occupational Health and Safety Engineering
1205 Beal, IOE Building
Ann Arbor, MI 48109-2117

POC – Randy Rabourn
734-936-0148

Minnesota Education and Research Center
Midwest Center for Occupational Health and Safety
640 Jackson Street
St. Paul, MN 55101

POC – Sharon Knopp
612-221-3992

New York/New Jersey Education and Research Center
EOHSI Center for Education and Training
45 Knightsbridge Road, Brookwood II
Piscataway, NJ 08854-3923

POC – Bonnie Wilson
732-235-5062

North Carolina Education and Research Center
University of North Carolina at Chapel Hill
109 Conner Drive, Suite 1101
Chapel Hill, NC 27514

University of South Florida
College of Public Health
Department of Environmental and Occupational Health
13201 Bruce B. Downs Blvd.
Tampa, FL 33612-3805

POC – Larry D. Hyde
919-962-2101

POC – Michael Alexander
813-974-4559

Southwest Center for Occupational & Environmental Health
UT-H Health Science Center School of Public Health
1200 Herman Pressler
Houston, TX 77030

Rocky Mountain Center for Environmental Health
University of Utah
Salt Lake City, UT 84112

POC – Candace Pardue
713-500-9463

POC – Luz Dominguez
801-581-5710

Northwest Center for Occupational Health & Safety
Department of Environmental Health
University of Washington
4225 Roosevelt Way NE, Suite 100
Seattle, WA 98105-6099

POC – Jan Stewart
206-543-1069

FEDERAL EMERGENCY MANAGEMENT AGENCY (FEMA)
CHEMICAL STOCKPILE EMERGENCY PREPAREDNESS PROGRAM (CSEPP)

Course Title	**Agent Characteristics and Toxicology First Aid and Special Treatment (ACTFAST)**
Course Sponsor	FEMA/CSEPP
Course Description	A course designed to prepare emergency medical personnel to recognize and provide first response treatment to personnel exposed to nerve and blister agents. It can be presented in three ways—self-study, classroom with prior material review by trainees or classroom with no prior material review. Length: 8 hours
Course Objectives	• Describe initial first aid for nerve and blister agents. • Describe the potential hazards of nerve and blister agents, and how they work. • Identify the signs and symptoms of nerve and blister agent exposure.
NBC Areas of Competency	13, 19, 20

Target Audience

Military/Civilian/both	Both
Emergency Responder Group	Firefighter/HAZMAT, Law Enforcement, Incident Commanders & First Responder Trainers
Emergency Responder Levels	Awareness Level, Operations Level and EMS Level

Type of Instruction

Medium	Classroom
Gov/Contractor	Contractor

Course Location/ Facility Dependent	No
POC	Mr. Robert Norville
Address	500 C. Street, SW, Suite 629C, Washington, DC 20472
Phone Number	(202) 646-2734
Comments	This course is conducted by the States for emergency management professionals who are residents of the United States. Available in PDF from http://CSEPPweb-emc.ornl.gov/CSEPPMenu.html. Does not address the nuclear or biological components.

Course Title An Introduction to Protective Action Decision Making

Course Sponsor	FEMA/CSEPP
Course Description	This video describes two primary protective action options (evacuation and shelter-in-place) that could be recommended during a chemical emergency, the crucial decision issues for each option, and a process that planners and decision makers can use in development. Length: 30 minutes
Course Objectives	• Describe protective options evacuation and shelter-in-place. • Describe decision issues related to each option. • Enable planners to develop protective action plans.
NBC Areas of Competency	8, 8a

Target Audience

Military/Civilian/both	Both
Emergency Responder Group	Firefighter/HAZMAT, Law Enforcement, Incident Commanders & First Responder Trainers
Emergency Responder Levels	Awareness Level, Operations Level and EMS Level

Type of Instruction

Medium	Classroom, paper-based and video
Gov/Contractor	Contractor

Course Location/ Facility Dependent	No
Course Availability	Not currently available
POC	Mr. Robert Norville
Address	500 C. Street, SW, Suite 629C, Washington, DC 20472
Phone Number	(202) 646-2734
Comments	Requires video cassette player for presentation. Does not address nuclear/biological components of NBC.

Course Title	**Chemical Accident/Incident Response & Assistance**

Course Sponsor	FEMA/CSEPP
Course Description	A course emphasizing readiness in a possible chemical accident. Response and recovery phases are also discussed to a lesser degree. This course identifies the various functions performed after a chemical agent release and covers actions by public affairs, monitoring, decontamination, security, logistics. Length: 29 to 40 hours
Course Objectives	Understand Army procedures in a chemical accident
NBC Areas of Competency	3, 5, 21, 25, 26

Target Audience

Military/Civilian/both	Both
Emergency Responder Group	Public Officials, Incident Commanders & First Responder Trainers
Emergency Responder Levels	Incident Command

Type of Instruction

Medium	Classroom
Gov/Contractor	Contractor

Recommended Class Size	Less than 50
Course Location/ Facility Dependent	Yes
Course Availability	Immediately
POC	Mr. Barry Willmington
Address	U.S. Army Defense & Ammunition Center, Savanna, IL 61074
Phone Number	(815) 273-8915
Comments	This course is intended for on-post personnel of a CSEPP site. Full course title: Chemical Accident/Incident Response and Assistance (CAIRA). Does not address nuclear or biological components.

Course Title **Chemical Hazard Prediction**

Course Sponsor	FEMA/CSEPP
Course Description	A course designed to teach fundamentals of downwind hazard prediction using the Emergency Management Information System (EMIS). The student will receive instruction on the various types of chemical agents and munitions in the Army stockpile. Length: 36 hours
Course Objectives	Determine appropriate downwind distance hazards for an agent release. Be able to calculate agent cloud arrival and departure times. Be able to critically analyze program results to assure that protective action recommendations and decisions are meaningful and purposeful in mitigating the emergency situation.
NBC Areas of Competency	4, 5, 14, 15, 16, 25

Target Audience

Military/Civilian/both	Civilian
Emergency Responder Group	Firefighters/HAZMAT, Incident Commanders & First Responder Trainers
Emergency Responder Levels	Technician/Specialist

Type of Instruction

Medium	Classroom and computer-based
Gov/Contractor	Contractor

Recommended Class Size	Less than 20, more than 10
Course Location/ Facility Dependent	Yes
Course Availability	Immediately

POC	Mr. Robert Norville
Address	500 C. Street, SW, Suite 629C, Washington, DC 20472
Phone Number	(202) 646-2734
Prerequisites	Computer based course requiring an IBM - compatible 386.
Comments	Requires projector screen and computers for students. Does not address nuclear or biological components.

Course Title	**Chemical Hazard Prediction for Decision Makers**
Course Sponsor	FEMA/CSEPP
Course Description	A course designed to acquaint attendees with their responsibilities for PAD-making in the event of a chemical agent release. Centered around the Army's Emergency Management Information System (EMIS), the Army's authorized computer hazard prediction modeling program. Course stresses EMIS as a management tool. Length: 8 to 16 hours
Course Objectives	Be able to use the EMIS to effectively use its output for protective action recommendations and protective action decisions.
NBC Areas of Competency	5, 14, 15, 16, 25, 26

Target Audience

Military/Civilian/both	Civilian
Emergency Responder Group	Firefighters/HAZMAT, Incident Commanders & First Responder Trainers
Emergency Responder Levels	Technician/Specialist and Incident Command Level

Type of Instruction

Medium	Classroom and paper-based
Gov/Contractor	Contractor

Recommended Class Size	Less than 50
Course Location/ Facility Dependent	Yes
Course Availability	Immediately
POC	Mr. Robert Norville
Address	500 C. Street, SW, Suite 629C, Washington, DC 20472
Phone Number	(202) 646-2734
Prerequisites	Students must have an understanding of chemical agents and munitions, and the effects of chemical agents.
Comments	Projector screen required. Does not address nuclear or biological components.

Course Title Chemical Stockpile Agent Characteristics

Course Sponsor	FEMA/CSEPP
Course Description	Video program that teaches sophisticated information about military chemical weapons in a manner every adult can understand. Length: 17 minutes
Course Objectives	Ensure that those responsible for protecting U.S. civilians in the event of an incident involving a chemical warfare agent are prepared to offer the aid that will be needed.
NBC Areas of Competency	1, 2, 6, 14

Target Audience

Military/Civilian/both	Civilian
Emergency Responder Group	Firefighters/HAZMAT, Law Enforcement & First Responder Trainers
Emergency Responder Levels	Awareness Level and Operations Level

Type of Instruction

Medium	Video
Gov/Contractor	Contractor

Recommended Class Size	Less than 100
Course Location/ Facility Dependent	No
Course Availability	Not currently available
POC	Mr. Robert Norville
Address	500 C. Street, SW, Suite 629C, Washington, DC 20472
Phone Number	(202) 646-2734
Comments	Requires video cassette player for presentation. Does not address nuclear or biological component of NBC.

Course Title CSEPP Chemical Awareness

Course Sponsor	FEMA/CSEPP
Course Description	This course is designed to familiarize participants with the chemical stockpile and its components, the Chemical Stockpile Disposal Program and the Chemical Stockpile Emergency Preparedness Program. Length: 6 to 8 hours
Course Objectives	• Describe the types of agents stored in each location. • Describe major emergency planning steps for protecting people in the event of a chemical incident. • Describe how to avoid contact with chemical agents. • Describe effects of weather and terrain on the movement of chemical agents. • Describe the symptoms of chemical agent exposure.
NBC Areas of Competency	2, 6, 8, 8a, 16, 26

Target Audience

Military/Civilian/both	Both
Emergency Responder Group	Firefighters/HAZMAT, Law Enforcement & First Responder Trainers
Emergency Responder Levels	Awareness Level and Operations Level

Type of Instruction

Medium	Classroom
Gov/Contractor	Contractor

Course Location/ Facility Dependent	No

POC	Mr. Robert Norville
Address	500 C Street, SW, Suite 629C, Washington, DC 20472
Phone Number	(202) 646-2734
Comments	Available in PDF from http://CSEPPweb-emc.ornl.gov/CSEPPMenu.html. Does not address nuclear or biological components.

Course Title Emergency Management Information System (EMIS)

Course Sponsor	FEMA/CSEPP
Course Description	Length dependent on the audience and levels of proficiency required. The course is structured to closely match the EMIS access levels of various Emergency Operations Center personnel. Each student will receive training based on his/her access privileges in EMIS and all lower levels. All students will receive an overview of the program. Length: 8 to 32 hours
Course Objectives	Proficiency in the use of the Emergency Management Information System.
NBC Areas of Competency	5, 11, 16

Target Audience

Military/Civilian/both	Civilian
Emergency Responder Group	Firefighters/HAZMAT, Incident Commanders & First Responder Trainers
Emergency Responder Levels	Technician/Specialist Level and Senior Management

Type of Instruction

Medium	Classroom and computer-based
Gov/Contractor	Contractor

Recommended Class Size	Less than 20, more than 10
Course Location/ Facility Dependent	Yes
Course Availability	Immediately
POC	Mr. Barry Willmington
Address	U.S. Army Defense & Ammunition Center, Savanna, IL 61074
Phone Number	(815) 273-8915
Prerequisites	Proficiency in Microsoft Windows and the use of a mouse are required.
Comments	Course location requires a projector screen and a Sun Server networked to 11 or more IBM compatible 80386 or better computers (1 for each student and 1 for instructor).

Course Title **Emergency Planner's Companion**

Course Sponsor FEMA/CSEPP

Course Description A suite of five CD-ROM titles designed to familiarize the planner with and evaluate their competency in critical areas of the emergency planning process. Areas of Protective Action, Emergency Response Functions, Requirements for Alert and Notification and Communications Systems, Decontamination and Emergency Medical Support, and Emergency Worker Operations. Length: self-paced

Course Objectives

- Familiarize planners with critical areas of emergency planning.
- Evaluate competency of planners to identify critical areas of the emergency planning process.

NBC Areas of Competency 11, 16, 17, 17a, 25, 26

Target Audience

Military/Civilian/both	Civilian
Emergency Responder Group	Public Officials
Emergency Responder Levels	Senior Management Level

Type of Instruction

Medium	Paper-based and computer-based (CD-ROM)
Gov/Contractor	Contractor

Course Location/ Facility Dependent No

POC Mr. Robert Norville
Address 500 C. Street, SW, Suite 629C, Washington, DC 20472
Phone Number (202) 646-2734

Comments Modifications based on the threat of non-stockpile agents may be required. Course location requires 486/66 MHz, Windows 3.1x 16 MB RAM, CD-ROM Drive Speed 4x, 16 bit sound card with external speakers and sound blaster compatible. Available for purchase through NTIS.

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Course Title	**How Do I Know?**
Course Sponsor	FEMA/CSEPP
Course Description	This is a video and accompanying guide. The video describes and illustrates the testing and evaluation that went into assessing personal protective equipment (PPE) such as clothing, respirators, and monitoring devices, for use by emergency responders; and addresses federal regulatory requirements that have helped shape CSEPP emergency responder operations. The guide contains a collection of information sheets dealing with PPE that were prepared for use in CSEPP technical training courses on PPE, decontamination procedures, and medical care of chemical casualties. The guide may also serve as a stand-alone. Length: 33 minutes
Course Objectives	Allow decision makers to understand what PPE is available, what are the pros and cons of making one selection versus another, what do the items cost, and where can more information be obtained.
NBC Areas of Competency	7, 9, 13, 19, 20
Target Audience	
Military/Civilian/both	Both
Emergency Responder Levels	Awareness, Operations, Technician/Specialist Level
Type of Instruction	
Medium	Paper-based and video
Gov/Contractor	Contractor
Course Location/ Facility Dependent	No
Course Availability	Not currently available
POC	Mr. Robert Norville
Address	500 C. Street, SW, Suite 629C, Washington, DC 20472
Phone Number	(202) 646-2734
Comments	Course subtitled: A Guide to the Selection of Personal Protective Equipment for Use in Responding to A Release of Chemical Warfare Agents. Requires video cassette player. Does not address nuclear or biological components.

Course Title **Management of Chemical Warfare Injuries**

Course Sponsor	FEMA/CSEPP
Course Description	Initially designed for military use, this course is designed to aid all medical personnel in the treatment of chemical agent casualties. This course is issued in CD-ROM format. Length: self-paced
Course Objectives	• Describe technical information for nerve, blister, lung, cyanide and riot control agents. • Diagnose and treat chemical agent casualties.
NBC Areas of Competency	13, 17, 19, 21

Target Audience

Military/Civilian/both	Both
Emergency Responder Group	Firefighters/HAZMAT, Emergency Medical Services
Emergency Responder Levels	Operations Level, Technician/Specialist Level, EMS Level

Type of Instruction

Medium	CD-ROM
Gov/Contractor	Both

Course Location/ Facility Dependent	No
Course Availability	Immediately
POC	Mr. Robert Norville
Address	500 C. Street, SW, Suite 629C, Washington, DC 20472
Phone Number	(202) 646-2734
Comments	Copies can be ordered from the National Audiovisual Center (703) 487-4630. Available from NTIS. Does not address the nuclear or biological components.

Course Title **Personal Protective Equipment**

Course Sponsor	FEMA/CSEPP
Course Description	This course provides knowledge about the role of personal protective equipment (PPE) in the CSEPP emergency response, different types of PPE, how to use and maintain PPE and factors that effect work rules, policies and procedures relating to use of PPE. Length: 8 hours
Course Objectives	• Personal protection by donning PPE. • Removal of PPE without contaminating oneself. • Recognizing the limitations of PPE. • Know when and how to use chemical detector kits. • Know CSEPP, state and local work rules, policies and procedures.
NBC Areas of Competency	7, 8, 12, 18

Target Audience

Military/Civilian/both	Both
Emergency Responder Group	Firefighters/HAZMAT, Law Enforcement
Emergency Responder Levels	Operations Level, Technician/Specialist Level, EMS Level

Type of Instruction

Medium	Classroom and Practical Exercise
Gov/Contractor	Contractor

Course Location/ Facility Dependent	No
POC	Mr. Robert Norville
Address	500 C. Street, SW, Suite 629C, Washington, DC 20472
Phone Number	(202) 646-2734
Prerequisites	Certification at medical competency, and agreement to remain clean-shaven for the duration of the course.
Comments	Available in pdf from http://CSEPPweb-emc.ornl.gov/CSEPPMenu.html. Does not address nuclear or biological components.

Course Title Response Phase Decontamination for CSEPP

Course Sponsor	FEMA/CSEPP
Course Description	A course designed to prepare personnel to perform Response Phase Decontamination for the Chemical Stockpile Emergency Preparedness Program. Length: 8 hours
Course Objectives	• Lifesaving and minimization of personnel injury. • Preventing contamination spread.
NBC Areas of Competency	9, 20, 22, 23
Target Audience	
Military/Civilian/both	Both
Emergency Responder Group	Firefighters/HAZMAT, Emergency Medical Services
Emergency Responder Levels	Awareness Level, Operations Level, Technician/Specialist Level, EMS Level
Type of Instruction	
Medium	Classroom and practical exercise
Gov/Contractor	Contractor
Course Location/ Facility Dependent	No
POC	Mr. Robert Norville
Address	500 C. Street, SW, Suite 629C, Washington, DC 20472
Phone Number	(202) 646-2734
Comments	Available in PDF from http://CSEPPweb-emc.ornl.gov/CSEPPMenu.html. Does not address nuclear or biological components.

Course Title Technical Planning and Evaluation

Course Sponsor	FEMA/CSEPP
Course Description	This course is designed to aid planners and decision makers in developing emergency response plans and preparing strategies for response to a chemical emergency. Length: 3 days
Course Objectives	• Identify the physical and chemical properties of chemical agents that are important to the protective action decision making process and development of protective action strategies. • Identify the potential human health effects of chemical agents that are important to the decision making process and development of protective action strategies. • Define and illustrate the concepts of exposure, dose and risk and how they relate to the protective action decision making process. • Describe the specific planning tools developed within CSEPP for protective action planning. • Define evacuation and sheltering as protective actions for CSEPP.
NBC Areas of Competency	16, 25, 26

Target Audience

Military/Civilian/both	Both
Emergency Responder Group	Firefighters/HAZMAT, Law Enforcement
Emergency Responder Levels	Awareness Level, Operations Level, Technician/Specialist Level, EMS Level

Type of Instruction

Medium	Paper-based and other (computer-based)
Gov/Contractor	Both

Course Location/ Facility Dependent	No
Course Availability	Not currently available

POC	Mr. Robert Norville
Address	500 C. Street, SW, Suite 629C, Washington, DC 20472
Phone Number	(202) 646-2734
Comments	Does not address nuclear or biological components.

Course Title	**Use of Auto-Injectors by Civilian Emergency Medical Personnel to Treat Civilians Exposed to Nerve Agent**
Course Sponsor	FEMA/CSEPP
Course Objectives	• Identify antidotes to be used and when to use them. • Demonstrate the use of auto-injectors. • Recognize adverse reactions to antidotes. Length: 4 hours
NBC Areas of Competency	13, 19, 20

Target Audience

Military/Civilian/both	Civilian
Emergency Responder Group	Firefighters/HAZMAT, Emergency Medical Services (e.g., EMT, Paramedic, etc.)
Emergency Responder Levels	Awareness Level, Operations Level, Technician/Specialist Level, EMS Level and Senior Management Level

Type of Instruction

Medium	Classroom
Gov/Contractor	Contractor

Course Location/ Facility Dependent	No
POC	Mr. Robert Norville
Address	500 C. Street, SW, Suite 629C, Washington, DC 20472
Phone Number	(202) 646-2734
Comments	Available in PDF from http://CSEPPweb-emc.ornl.gov/CSEPPMenu.html. Wall charts and pocket cards are also available, depending on whether this is taught for 1st Responders as a stand-alone course or as part of ACT FAST. Does not address nuclear or biological components of NBC.

FEDERAL EMERGENCY MANAGEMENT AGENCY (FEMA)
EMERGENCY MANAGEMENT INSTITUTE (EMI)

Course Title Advanced Radiation Incident Operations (ARIO)

Course Sponsor	FEMA/Emergency Management Institute
Course Description	ARIO is a performance based course that builds on the knowledge, skills, and abilities of the Radiological Emergency Response Operations Course which will enable participants to better manage and plan for radiological operations and use specialized instruments that might be available to a responder. Length: 4.5 days
Course Objectives	• Integrate the radiological response team with multi-agency response structure. • Manage information (interpret, prioritize, disseminate) from multiple sources. • Analyze hazards through sampling and monitoring, and assess health and safety risks to develop operational priorities. • Prioritize and implement operational goals in accordance with the radiological field response plan and applicable Federal regulations and guidelines.
NBC Areas of Competency	1-26

Target Audience

Military/Civilian/both	Both
Emergency Responder Group	All Emergency Management Groups
Emergency Responder Levels	Federal, State, local and private sector

Type of Instruction

Medium	Classroom
Gov/Contractor	Government

Recommended Class Size	24
Course Location/ Facility Dependent	Yes
Course Availability	Within 30 days
Cost (Does not include billeting)	No cost to participants
POC	Mr. Jose Cortes
Address	Mount Weather Conference Center, 19844 Blue Ridge Mountain Road, Bluemont, VA 20135
Phone Number	(540) 542-2548
Comments	Focus of course is on terrorism.

Course Title Emergency Response to Criminal/Terrorist Incidents

Course Sponsor FEMA/Emergency Management Institute

Course Description The purpose of the course is to:

- Increase local emergency responder's ability to preserve evidence while performing rescue and fire suppression activities.
- Foster a cooperative working relationship when working together in responding to criminal incidents.
- Prepare for incidents when Federal responders are involved.
- Length: 6 hours

Course Objectives At the completion of the course, participants will be able to:

- Recognize when incident sites may also be crime sites.
- Describe types and identify potential targets of criminal activity.
- Recognize potential hazards at crime scenes.
- Perform safe operations at criminal incident sites including rescuing and treating victims and preserving property.
- Stabilize the crime scene and maximize evidence preservation.
- List appropriate actions and actions to avoid at a criminal incident site.
- Describe the needs, roles, and responsibilities of law enforcement and non-law enforcement responders at a criminal incident site.
- Explain when and why Federal agencies get involved and how to interact with them.

NBC Areas of Competency 1, 4, 10, 10a, 11, 16, 21, 26

Target Audience

Military/Civilian/both	Civilian
Emergency Responder Group	Firefighter/HAZMAT, Law Enforcement, Emergency Services Technician (e.g., EMT, Paramedic, etc.)
Emergency Responder Levels	Operations Level

Type of Instruction

Medium	Classroom, practical exercise, and video
Gov/Contractor	Both

Recommended Class Size Less than 30

Course Location/ Facility Dependent No

Course Availability Now

Cost (Does not include billeting) The course is given at no charge to the individual or organization

POC Mr. Tom Marlowe

Address Emergency Management Institute, 16825 S. Seton Avenue, Emmitsburg, MD 21727

Phone Number (301) 447-1060

Comments This course was designed to be delivered to the responders in a community/ jurisdiction. It will work best when delivered in that environment. If multiple jurisdictions are represented in the course, they should be grouped by jurisdiction. Course requires a video cassette player.

Course Title Exercise Design Course

Course Sponsor	FEMA/Emergency Management Institute
Course Description	Part of a broader training approach to teach performance-based education to emergency management personnel how to design and conduct emergency exercises within the context of a community exercise program. Emphasis is on design of a functional exercise which will lead to the capability of a jurisdiction to conduct a full-scale exercise. Length: 16 hours
Course Objectives	• Importance of exercise design. • Design a progressive exercise program for a community. • Conduct a tabletop exercise in their community. • Understand physical requirements and roles for a functional exercise. • Design an exercise evaluation form and evaluation methodology.
NBC Areas of Competency	25, 26

Target Audience

Military/Civilian/both	Civilian
Emergency Responder Group	Emergency Management Professionals (e.g., EMT, Paramedic, etc.)
Emergency Responder Levels	EMS Level

Type of Instruction

Medium	Classroom, paper-based and video
Gov/Contractor	Government

Recommended Class Size	Less than 50
Course Location/ Facility Dependent	No
Cost (Does not include billeting)	No cost
POC	Lowell Ezersky
Address	Emergency Management Institute, 16825 S. Seton Ave., Emmitsburg, MD 21727
Phone Number	(301) 447-1355
Comments	This course is offered under EMI's non-resident instruction program.

Course Title Exercise Evaluation Course

Course Sponsor	FEMA/Emergency Management Institute
Course Description	A course which provides the base for evaluation of multi-hazard, multiple-jurisdiction exercises in which State and local governments participate. The focus is on the evaluation process to serve the needs of individuals who manage the exercise evaluation function in the field of emergency management. Length: 2 days
Course Objectives	• Describe the need for a systematic approach to exercise evaluation. • List key steps in identifying and organizing an effective exercise evaluation team. • Summarize the components of the exercise evaluation package and the process for evaluator team orientation and training. • Describe and/or demonstrate skills required during the evaluation of an exercise. • Describe and/or demonstrate key post-exercise evaluation activities. • Identify the key tasks in each of the three phases of the exercise evaluation process.
NBC Areas of Competency	25,26

Target Audience

Military/Civilian/both	Civilian
Emergency Responder Group	First Responder Trainers
Emergency Responder Levels	Technician/Specialist Level

Type of Instruction

Medium	Classroom
Gov/Contractor	Government

Course Location/ Facility Dependent	No
Cost (Does not include billeting)	No cost
POC	Lowell Ezersky
Address	Emergency Management Institute, 16825 S. Seton Avenue, Emmitsburg, MD 21727
Phone Number	(301) 447-1355
Comments	Delivered through EMI's State Training Offices at the local level.

Course Title	**Fundamentals Course for Radiological Monitors**

Course Sponsor	FEMA/Emergency Management Institute
Course Description	This course is designed to qualify, as radiological monitors, emergency responders who may be the first to arrive on the scene of a radiological accident or who may serve in an emergency service role following a radiological emergency. The course is designed to provide initial responders with the capability to take immediate protective action and to obtain further assistance as necessary. The course provides "hands-on" experience with certain radiological instruments. Length: 8 hours
Course Objectives	At the conclusion of the course, the participant will be able to: • Use, maintain, and accurately read radiation detection instruments. • Identify and report radiation exposure rates and doses. • Identify warning signs, labels, and placards which indicate radioactive materials may be present. • Locate the presence of radioactive materials in order to prevent the spread of contamination. • List basic biological effects of exposure to radiation. • List basic protective actions used to limit exposure to radiation and procedures to prevent the spread of contamination.
NBC Areas of Competency	1, 2, 2b, 4-8, 12-15, 17, 17a, 18-23, 25, 26

Target Audience

Military/Civilian/both	Civilian
Emergency Responder Group	Firefighter/HAZMAT, Law Enforcement Public Works, First Responder Trainers
Emergency Responder Levels	Technician/Specialist Level

Type of Instruction

Medium	Classroom, video, and practical exercise
Gov/Contractor	Both

Recommended Class Size	Less than 30
Course Location/ Facility Dependent	No
Course Availability	Within 30 days
Cost (Does not include billeting)	The course is given at no charge to the individual or organization
POC	Mr. Jose Cortes
Address	Mount Weather Conference Center, 19844 Blue Ridge Mountain Road, Bluemont, VA 20135
Phone Number	(540) 542-2548
Comments	Course requires video cassette player for presentation. Does not address chemical or biological components.

Course Title	**Fundamentals Course for Radiological Response Teams**

Course Sponsor	FEMA/Emergency Management Institute
Course Description	This course is designed to qualify participants as radiological response team members by providing them with the knowledge and skills needed to support planning, emergency, and recovery activities in the event of a radiological incident. Length: 3.5 days
Course Objectives	• Classify the roles and responsibilities of each component of the Radiological Protection System (RPS). • Explain the radiation characteristics of commonly shipped radionuclides and the radiation hazard involved. • Specify the factors that will affect biological response to radiation and describe the risk in various types of radiation incidents. • Use the table "Response of Radiation Monitoring Instruments to Normalized Risk Quantities of Radionuclides" and knowledge of radiological instruments to select and use radiological instruments for assessment of hypothetical radiation incidents. • Use the Fallout Exposure Rate Prediction Tables to access the radiological hazards associated with a hypothetical nuclear detonation by terrorists. • Given descriptions of the radiation hazards, develop strategies for exposure control, contamination control, and decontamination actions in hypothetical radiation incidents. • Evaluate team effectiveness during practical radiological response exercise.
NBC Areas of Competency	1, 2, 2b, 3-9, 11-26

Target Audience

Military/Civilian/both	Civilian
Emergency Responder Group	Firefighter/HAZMAT, Public Works, First Responder Trainers
Emergency Responder Levels	Technician/Specialist Level

Type of Instruction

Medium	Classroom, video, and practical exercise
Gov/Contractor	Both

Recommended Class Size	Less than 30
Course Location/ Facility Dependent	No
Course Availability	Within 30 days
Cost (Does not include billeting)	The course is given at no charge to the individual
POC	Mr. Jose Cortes
Address	Mount Weather Conference Center, 19844 Blue Ridge Mountain Road, Bluemont, VA 20135
Phone Number	(540) 542-2548
Comments	Course requires a video cassette player for presentation. Does not address chemical or biological components.

Course Title	**Incident Command System/Emergency Operations Center (ICS/EOC) Interface**

Course Sponsor	FEMA/Emergency Management Institute
Course Description	The course is designed to enable participants to develop ICS/EOC interface implementation strategies or action plans for their communities. The course reviews the ICS and EOC models of emergency management operations, including coordination, communication, and chief executive decision making. It enhances knowledge and skills needed for clarifying roles, responsibilities, and relationships prior to disaster through small-group and large-group exercises. Length: 12 hours
Course Objectives	• Describe the principles of the Incident Command System (ICS), including its purpose, key roles and responsibilities. • Describe the principles of Emergency Operating Center (EOC), including its purpose, key roles and responsibilities. • Using scenarios, analyze the ICS and EOC systems and list various interface issues. • Apply ICS/EOC interface concepts in an exercise situation. • Develop an ICS/EOC interface action plan for his or her community.

Target Audience

Military/Civilian/both	Civilian
Emergency Responder Group	Emergency Managers and Responders
Emergency Responder Levels	EMS Level

Type of Instruction

Medium	Classroom, video, and practical exercise
Gov/Contractor	Government

Recommended Class Size	Less than 50
Course Location/ Facility Dependent	No
Course Availability	Within 30 days
POC	Stephen Booth
Address	Emergency Management Institute, 16825 S. Seton Ave., Emmitsburg, MD 21727
Phone Number	(301) 447-1249
Comments	This course is offered under EMI's non-resident instruction program.

Course Title	**Incident Command System for Law Enforcement Agencies**

Course Sponsor	FEMA/Emergency Management Institute
Course Description	Identify elements of Incident Command System, concepts, principles, history and laws. Identify the responsibilities of the Incident Commander and his management techniques. Discussion of Division and Group functions and General Staff functions. Length: 13 hours
Course Objectives	• Define Incident Command System. • Identify and take appropriate actions during the stabilization phase of an incident. • Establish a command post and staging area. • Describe and apply Division and Group command structure elements. • Describe purpose and responsibilities of Operations, Planning, Logistics, and Finance/Administration functions.
NBC Areas of Competency	1, 2, 2b, 4-8, 12-15, 17, 17a, 18-23, 25, 26

Target Audience

Military/Civilian/both	Civilian
Emergency Responder Group	Law Enforcement, First Responder Trainers
Emergency Responder Levels	EMS Level, Senior Management Level

Type of Instruction

Medium	Classroom and practical exercise
Gov/Contractor	Government

Recommended Class Size	Less than 50
Course Location/ Facility Dependent	No
Course Availability	Immediately
POC	Stephen Borth
Address	Emergency Management Institute, 16825 S. Seton Ave., Emmitsburg, MD 21727
Phone Number	(301) 447-1249
Comments	This course is offered under EMI's non-resident instruction program.

Course Title Incident Command System for Public Works

Course Sponsor	FEMA/Emergency Management Institute
Course Description	Identifies elements of Incident Command System, concepts, principles, history and laws. Identifies responsibilities of the Incident Commander and his management techniques. Discussion of Division and Group functions and General Staff functions. Length: 14 hours

Course Objectives

- Define Incident Command System.
- Identify and take appropriate actions during the stabilization phase of an incident.
- Establish a command post and staging area.
- Describe and apply Division and Group command structure elements.
- Describe purpose and responsibilities of Operations, Planning, Logistics, and Finance/Administration functions.

Target Audience

Military/Civilian/both	Civilian
Emergency Responder Group	Public Works
Emergency Responder Levels	EMS Level, Senior Management Level

Type of Instruction

Medium	Classroom, paper-based, video and practical exercise
Gov/Contractor	Government

Recommended Class Size	Less than 50
Course Location Facility Dependent	No
Course Availability	Immediately

POC	Stephen Borth
Address	Emergency Management Institute, 16825 S. Seton Avenue, Emmitsburg, MD 21727
Phone Number	(301) 447-1249
Comments	This course is offered under EMI's non-resident instruction program.

Course Title	**Integrated Emergency Management Course: Consequences of Terrorism**
Course Sponsor	FEMA/Emergency Management Institute
Course Description	The course focuses primarily on how local, State, and Federal agencies coordinate their response and recovery efforts relating to an act of terrorism. The course stresses the importance of coordination, communications, and cooperation of all political and response oriented entities, including State and Federal agencies. Length: 40 hours
Course Objectives	a. Describe the Integrated Emergency Management System (IEMS). • Describe the consequences of a terrorist act. • Describe the role of Federal, State and local governments in assisting communities that have been affected by an act of terrorism. • Describe the role of the media and public information. • Identify mass care issues. • Describe the capabilities, limitations, and needs of the following assets: law enforcement, fire service, emergency medical service, and public works. • Describe critical incident stress.
NBC Areas of Competency	1, 5, 6, 8a, 11, 16

Target Audience

Military/Civilian/both	Both
Emergency Responder Group	Firefighter/HAZMAT, Law Enforcement, Emergency Services Technician (e.g., EMT, Paramedic, etc.)
Emergency Responder Levels	Operations Level

Type of Instruction

Medium	Classroom, practical exercise, and video
Gov/Contractor	Government

Recommended Class Size	Less than 50
Course Location/ Facility Dependent	No
Course Availability	Within 30 days
Cost (Does not include billeting)	The course is given at no charge to the individual or organization
POC	Mr. Ray Chevalier
Address	Emergency Management Institute, 16825 S. Seton Avenue, Emmitsburg, MD 21727
Phone Number	(301) 447-1187
Comments	Requires a video cassette player.

Course Title Mass Fatalities Incident Course

Course Sponsor	FEMA/Emergency Management Institute
Course Description	This course prepares state and local personnel and other responsible agencies and professionals to handle mass fatalities effectively and to work with the survivors in an emergency or disaster. Length: 16.5 hours
Course Objectives	To prepare response personnel and other responsible professionals to handle a mass fatalities incident effectively by properly caring for the dead and the living - both responders and survivors.
NBC Areas of Competency	1, 2, 4, 6, 7, 8, 8a, 9, 12, 13, 14, 15, 17, 17a, 19, 20, 21, 22

Target Audience

Military/Civilian/both	Both
Emergency Responder Group	Firefighter/HAZMAT, Incident Commanders, Law Enforcement, First Responder Trainers
Emergency Responder Levels	Operations Level who must operationalize the ICS/EOC interface

Type of Instruction

Medium	Classroom, video and practical exercise
Gov/Contractor	Both

Recommended Class Size	Less than 50
Course Location/ Facility Dependent	No
Course Availability	Within 30 days
POC	Sam Isenberger
Address	Emergency Management Institute, 16825 S. Seton Avenue, Emmitsburg, MD 21727
Phone Number	(301) 447-1071
Comments	This course is offered under EMI's non-resident instruction program. Does not cover the NBC portions of a Weapon of Mass Destruction.

Course Title	**Radiological Emergency Response Operations (RERO)**
Course Sponsor	FEMA/Emergency Management Institute
Course Description	RERO is a course that provides a practical performance oriented approach to team response that accomplishes the five phases of the Radiological cleanup of radioactive material. Length: 5.5 days
Course Objectives	At the conclusion of the course, the participant will be able to respond as a radiological team member to a variety of radiological accidents in five operational phases: • Initial communication. • On-site communication. • Initial response operations. • Exclusion area operations. • Termination of response operations.
NBC Areas of Competency	1-9, 11-26

Target Audience

Military/Civilian/both	Both
Emergency Responder Group	All Emergency Service and Management Groups
Emergency Responder Levels	Federal, State, local and private sector

Type of Instruction

Medium	Classroom, video and practical exercise
Gov/Contractor	Government

Recommended Class Size	24
Course Location/ Facility Dependent	Yes
Course Availability	Within 30 days
Cost (Does not include billeting)	No cost to participants
POC	Mr. Jose Cortes
Address	Mount Weather Conference Center, 19844 Blue Ridge Mountain Road, Bluemont, VA 20135
Phone Number	(540) 542-2548
Comments	Does not address chemical or biological components.

FEDERAL EMERGENCY MANAGEMENT AGENCY (FEMA)
(NATIONAL FIRE ACADEMY)

Course Title	**Advanced Life Support Response to Hazardous Materials Incidents**
Course Sponsor	FEMA/National Fire Academy
Course Description	The course is directed to paramedics who are tasked with providing medical support at HAZMAT incidents. The course assumes that participants are trained to the "first responder-operations level" as defined by NFPA 472 and 29 CFR 1910.120. Length: 2 weeks
Course Objectives	Given a scenario on video and working in small groups, the participants will be able to identify the product, characterize the incident, and analyze response activities of the agency involved. Given a list of alternatives and working individually, the participants will: • Select the correct definition of standard of care. • Identify at least one influence on the hazardous standard of care. • Identify the correct definitions for liability, negligence, gross negligence, and malfeasance. • Select at least one key component of 29 CFR 1910.120 and 40 CFR 311.
NBC Areas of Competency	2, 3-7, 8, 9, 12-15, 17, 17a, 18-23, 26

Target Audience

Military/Civilian/both	Civilian
Emergency Responder Group	Emergency Medical Services (e.g., EMT, Paramedic, etc.)
Emergency Responder Levels	Operations Level, Technician/Specialist Level

Type of Instruction

Medium	Classroom, paper based, video and practical exercise
Gov/Contractor	Government

Recommended Class Size	Less than 25
Course Location/ Facility Dependent	No
Course Availability	Immediately
Cost (Does not include billeting)	The course is given at no charge to the individual or organization
POC	Mr. Jeff Dyar
Address	National Fire Academy, 16825 S. Seton Avenue, Emmittsburg, MD 21727
Phone Number	(301) 447-1333
Prerequisites	Attended Basic Life Support Response to Hazardous Materials Incidents.
Comments	Course requires video cassette player. Does not address nuclear or biological components. Does not address chemical or biological components of the Nuclear, Biological and Chemical Agents (NBC) of Weapons of Mass Destruction (WMD).

Course Title Basic Life Support and Hazardous Materials Response

Course Sponsor	FEMA/National Fire Academy
Course Description	To assist the participant in understanding and complying with federal regulations and national recommendations concerning emergency medical response to hazardous materials incidents. Length: 16 hours
Course Objectives	• Identify mechanisms of harm and injury from hazardous substances and self-protection. • Describe the general principles of toxicology; respiratory, dermal, and systemic toxicology. • Describe on-site medical surveillance. • Describe decontamination during medical emergencies. • Describe ingestion injuries.
NBC Areas of Competency	2, 4-8, 12,-14, 17, 17a, 19, 20, 22, 23

Target Audience

Military/Civilian/both	Civilian
Emergency Responder Group	Emergency Medical Services (e.g., EMT, Paramedic, etc.)
Emergency Responder Levels	Operations Level, Technician/Specialist Level

Type of Instruction

Medium	Classroom, paper based, video and practical exercise
Gov/Contractor	Government

Recommended Class Size	Less than 25
Course Location/ Facility Dependent	No
Course Availability	Immediately
Cost (Does not include billeting)	No cost

POC	Mr. Jeff Dyar
Address	National Fire Academy, 16825 S. Seton Avenue, Emmitsburg, MD 21727
Phone Number	(301) 447-1333
Comments	Course requires a video cassette player for presentation.

Course Title **Chemistry of Hazardous Materials**

Course Sponsor	FEMA/National Fire Academy
Course Description	This course focuses on the basic knowledge required to evaluate the potential hazards and behaviors of materials considered being hazardous. Examines the reason for the chemical behavior of hazardous materials and is designed to improve decision making, safety operations, and handling. Length: 14 days
Course Objectives	• The students will be able to describe and explain the basics of chemistry. • The students will be able to describe and evaluate the results of fire onto given systems. • The students will be able to apply the proper classification system to various hazardous materials.
NBC Areas of Competency	1, 14

Target Audience

Military/Civilian/both	Civilian
Emergency Responder Group	Firefighter/HAZMAT and First Responder
Emergency Responder Levels	Technician/Specialist Level

Type of Instruction

Medium	Classroom, paper based and practical exercise
Gov/Contractor	Government

Recommended Class Size	Less than 50
Course Location/ Facility Dependent	No
Course Availability	Immediately
Cost (Does not include billeting)	No cost

POC	Ms. Angela Weathers
Address	National Fire Academy, 16825 South Seton Avenue, Emmitsburg, MD 21727
Phone Number	(301) 447-1411
Comments	Does not specifically cover Nuclear/Biological and Chemical materials that might be used by a terrorist.

Course Title	**Command and Control of Fire Department Operations at Target Hazards**
Course Sponsor	FEMA/National Fire Academy
Course Description	This course is designed to introduce command officers to the complexities involved in commanding incidents in high-risk areas. Students are confronted with a number of fire and rescue incidents that are influenced by high life hazard, multiple exposure, and unusual occupancy risk considerations. Length: 6 days
Course Objectives	• The students will be able to perform a comprehensive size up, a recognition-primed decision making and Post Incident Analysis. • The students will be able to utilize the Incident Command System and perform pre-incident planning. • The students will be able to effectively utilize command staff and communication systems. • The students will be able to properly use available resources and documentation. • The students will be able to successfully mitigate various forms of liability.
NBC Areas of Competency	14, 16, 25, 26

Target Audience

Military/Civilian/both	Civilian
Emergency Responder Group	Incident Commanders and First Responders
Emergency Responder Levels	Senior Management

Type of Instruction

Medium	Classroom, paper based, video and practical exercise
Gov/Contractor	Government

Recommended Class Size	Less than 50
Course Location/ Facility Dependent	No
Course Availability	Immediately
Cost (Does not include billeting)	No cost
POC	Mr. Hugh Wood
Address	National Fire Academy, 16825 South Seton Avenue, Emmitsburg, MD 21727
Phone Number	(301) 447-3087
Prerequisites	Demonstrated experience in Incident Command and completion of a previous command
Comments	A video cassette player for presentation is optional but not required for additional current topics. This course does not cover NBC type incidents.

Course Title	**Command and Control of Operations at Natural and Man-made Disasters**
Course Sponsor	FEMA/National Fire Academy
Course Description	This course addresses fire and rescue department operations at natural and man-made disasters that may require interagency or inter-jurisdictional coordination. Earthquakes, hurricanes, blizzards, civil disturbances, terrorism, hazardous materials releases, tornadoes, and floods are some of the topics covered. Length: 14 Days
Course Objectives	• The students will be able to identify and analyze various hazards. • By using the EOC scope, students will be able to set up evacuation routes, shelter systems, proper communication lines, resource management, and logistics systems. • The students will be able to properly execute the recovery phase of an incident.
NBC Areas of Competency	1, 2, 2b, 3, 4, 5, 8, 8a, 11, 16, 21, 25, 26

Target Audience

Military/Civilian/both	Civilian
Emergency Responder Group	Incident Commanders and First Responder Trainers
Emergency Responder Levels	Senior Management

Type of Instruction

Medium	Classroom, paper based and practical exercise
Gov/Contractor	Government

Recommended Class Size	Less than 50
Course Location/ Facility Dependent	No
Course Availability	Immediately
Cost (Does not include billeting)	No cost
POC	Mr. Hugh Wood
Address	National Fire Academy, 16825 South Seton Avenue, Emmitsburg, MD 21727
Phone Number	(301) 447-1087
Prerequisites	Demonstrated experience in Incident Command.
Comments	Does not specifically cover the use of NBC type materials as a Weapon of Mass Destruction (WMD).

Course Title	**Emergency Response to Terrorism: Basic Concepts**
Course Sponsor	FEMA/National Fire Academy
Course Description	To prepare first responders for terrorist incidents dealing primarily with life safety and self preservation within the areas of biological, nuclear, incendiary, chemical, and explosive attacks. This focus includes information on detection and monitoring for the above mentioned topics. Length: 16 hours
Course Objectives	• The student will be able to recognize circumstances that indicate a potential terrorist act. • The student will be able to define the implementation of appropriate self protective measures. • The student will be able to define scene control issues involving isolation, evacuation, and perimeter control associated with terrorist incidents. • The student will be able to recognize, define, and recommend tactical objectives for biological, nuclear, incendiary, chemical and explosive (B-NICE) incidents. • The student will be able to describe command and control issues associated with responder operations at a crime scene.
NBC Areas of Competency	1, 2, 2b, 3-5, 7, 8, 8a, 9, 10, 11, 12, 14, 15

Target Audience

Military/Civilian/both	Both
Emergency Responder Group	Firefighter/HAZMAT Emergency Medical Services (e.g. EMT, Paramedic, etc.) and Law Enforcement
Emergency Responder Levels	Operations Level

Type of Instruction

Medium	Classroom, paper based and video
Gov/Contractor	Both

Recommended Class Size	Less than 50
Course Location/ Facility Dependent	No
Course Availability	Immediately
Cost (Does not include billeting)	The course is given at no charge to the individual or organization
POC	Mr. Jeff Dyar
Address	National Fire Academy, 16825 S. Seton Avenue, Emmittsburg, MD 21727
Phone Number	(301) 447-1333
Comments	A video cassette player for presentation is optional but not required for additional current hazards as well.

Course Title Emergency Response to Terrorism: Incident Management

Course Sponsor	FEMA/National Fire Academy
Course Description	This course is designed for Incident Commanders who would be responsible for managing terrorism incidents. It has a heavy planning emphasis and includes recognizing cues that a terrorist incident is in progress. Length: 6 days
Course Objectives	• The student will be able to define and recognize terrorist incidents with respect to command issues. • The student will be able to plan and operate a terrorist incident with respect to operations, evidence issues, scene control, and hazardous materials/EMS responses. • The student will be able to implement the recovery and termination phases effectively. • The student will be able to relate full incident commander responsibilities to international and national terrorism incidents.
NBC Areas of Competency	1, 2, 2b, 3, 4, 5, 7, 8, 8a, 10, 10a, 11, 12, 14, 15, 16, 21, 25, 26

Target Audience

Military/Civilian/both	Civilian
Emergency Responder Group	Incident Commanders and First Responder Trainers
Emergency Responder Levels	Senior Management Level

Type of Instruction

Medium	Classroom, paper based, practical exercise and video
Gov/Contractor	Government

Recommended Class Size	Less than 50
Course Location/ Facility Dependent	No
Cost (Does not include billeting)	No cost
POC	Mr. Jeff Dyar
Address	National Fire Academy, 16825 South Seton Avenue, Emmitsburg, MD 21727
Phone Number	(301) 447-1333
Comments	A video cassette player for presentation is required for additional current topics.

Course Title	**Emergency Response to Terrorism: Self-Study**

Course Sponsor	FEMA/National Fire Academy
Course Description	This home study course is designed as a self-study, self paced document and is designed to provide the basic awareness training to prepare first responders to safely and effectively respond to incidents of terrorism. Length: 4 hours
Course Objectives	• The student will be able to recognize circumstances that indicate a potential terrorist act. • The student will be able to recognize and define indicators from five general agents. • The student will be able to define implementation of appropriate self-protective measures. • The student will be able to list and explain the need and processes traditionally associated with responding to an emergency. • The student will be able to recognize and relate the various roles as stated within the Federal Response Plan, EOPs, PDD-39, and the Stafford Act.
NBC Areas of Competency	1, 2, 2b, 3, 4, 5, 6, 7, 8, 8a, 10, 11, 16

Target Audience

Military/Civilian/both	Both
Emergency Responder Group	Firefighter/HAZMAT, Law Enforcement
Emergency Responder Levels	Awareness Level

Type of Instruction

Medium	Paper-based, Internet, practical exercise and video
Gov/Contractor	Government

Recommended Class Size	Less than 10
Course Location/ Facility Dependent	No
Course Availability	Immediately
Cost (Does not include billeting)	No cost

POC	USFA Publication Office
Address	16825 South Seton Avenue, Emmitsburg, MD 21727
Phone Number	(301) 447-1660

Course Title	**Emergency Response to Terrorism: Strategic Considerations for Command Officers**
Course Sponsor	FEMA/National Fire Academy
Course Description	This two-day course is intended to build upon existing skills as an Incident Commander and knowledge of terrorism from professional experience or from the *Emergency Response to Terrorism: Basic Concepts* (ERT:BC) or *ERT: Self Study (*ERT:SS). The class will assist the command officer in preparing an effective response to the consequences of terrorism. For the response to be effective, plans must be in place to guide responders in managing the incident. Incident Commanders must be prepared to operate as part of a multi-agency, multi-discipline and multi-jurisdictional response. Length: 16 hours.
Course Objectives	The participants will: • Apply their knowledge of pre-incident planning, managing emergency incidents, and operating as part of a Unified Command structure. • Provide command-level officers with the necessary knowledge and skills to plan for, respond to, and command incidents of terrorism.
NBC Areas of Competency	1, 2, 3, 4, 5, 6, 10, 11, 14, 15, 16, 17a, 21, 25, 26

Target Audience

Military/Civilian/both	Civilian
Emergency Responder Group	Command level officers
Emergency Responder Levels	Command level officers

Type of Instruction

Medium	Classroom, paper based, video, and practical exercise
Gov/Contractor	Government

Recommended Class Size	Less than 30
Course Location/ Facility Dependent	No
Course Availability	Immediately
Cost (Does not include billeting)	No cost
POC	John Kimball
Address	National Fire Academy, 16825 South Seton Avenue, Emmitsburg, MD 21727
Phone Number	(301) 447-1533
Prerequisites	ERT: BC or ERT: SS

Course Title	**Emergency Response to Terrorism: Tactical Considerations-Company Officer**
Course Sponsor	FEMA/National Fire Academy
Course Description	Topics covered are common considerations for response actions, recognition and survival, terrorism response strategies and tactical options and transition of command. Length: 16 hours, for two days.
Course Objectives	The primary goal is to supply the responding company officer with the strategic and tactical tools to recognize a hostile act, minimize losses, identify self-protective measures to other arriving units, establish command, manage the incident and direct operations until relieved by a senior ranking officer. The participants will: • Explain terrorist operational concepts and planning criteria. • Describe the common considerations for response actions or a terrorist attack. • Identify and evaluate information and explain how it relates to establishing protection measures at a suspected terrorist event. • Explain how a specific response strategy for a given scenario and proposed tactical options will increase responder survivability and response effectiveness. • List and explain incident command transition considerations.
NBC Areas of Competency	1, 2, 3, 4, 5, 6, 7, 8, 9, 10, 11, 12, 13, 14, 15, 16, 17

Target Audience

Military/Civilian/both	Civilian
Emergency Responder Group	First line supervisors of fire/rescue
Emergency Responder Levels	First line supervisors of fire/rescue

Type of Instruction

Medium	Classroom, paper-based, video and practical exercise
Gov/Contractor	Government

Recommended Class Size	Less than 25
Course Location/ Facility Dependent	No
Course Availability	Immediately
Cost (Does not include billeting)	No cost
POC	John Kimball
Address	National Fire Academy, 16825 South Seton Avenue, Emmitsburg, MD 21727
Phone Number	(301) 447-1533
Prerequisites	Emergency Response to Terrorism: Basic Concepts or Emergency Response to Terrorism: Self Study

Course Title	**Emergency Response to Terrorism: Tactical Considerations-Emergency Medical Services**
Course Sponsor	FEMA/National Fire Academy
Course Description	The course is intended to provide the first-on-the-scene EMS responder with the tactical and field medical considerations necessary for a safe and effective response to terrorist events: Length: 15 hours, 25 minutes for two days.
Course Objectives	The participants will: • Recognize the potential targets and events, as well as the associated impact of the event and resource needs/requirements. • Develop a safety plan for EMS operations. • Understand the implications of incident security upon personal safety and survival. • Understand the components of a patient care plan. • Understand the importance of planning for the event.
NBC Areas of Competency	1, 2 (except a,b), 3, 4, 5, 6, 7, 8, 9, 10, 11, 12, 13, 14, 15, 16, 17, 17a, 19, 20, 21, 22, 23

Target Audience

Military/Civilian/both	Civilian
Emergency Responder Group	Emergency Medical Services (e.g., EMT, Paramedic, etc.)
Emergency Responder Levels	Operations Level, Technician/Specialist Level

Type of Instruction

Medium	Classroom, paper-based, video and practical exercise
Gov/Contractor	Government

Recommended Class Size	Less than 25
Course Location/ Facility Dependent	No
Course Availability	Immediately
Cost (Does not include billeting)	No cost

POC	John Kimball
Address	National Fire Academy, 16825 South Seton Avenue, Emmitsburg, MD 21727
Phone Number	(301) 447-1533

Course Title	**Emergency Response to Terrorism: Tactical Considerations-Hazardous Materials**
Course Sponsor	FEMA/National Fire Academy
Course Description	The major topics covered are security, chemical and physical properties, monitoring, protection, product control and decontamination. Length: 16 hours for two days.
Course Objectives	This course is intended to increase the hazardous material technician's skill level to work in a team setting for a safe and effective response to terrorist events. The participants will: • Identify and implement basic security tactics. • Estimate risk and determine appropriate response actions and precautions. • Identify equipment likely to be useful in a response to a terrorist incident. • Select appropriate personal protective equipment based on the chemical and physical properties of the agent. • Identify appropriate products control methods as they relate to tactical operations at a terrorist incident. • Identify the components of decontamination plan for victims, response personnel and equipment that have become contaminated during a terrorist incident.
NBC Areas of Competency	1, 2, 3, 4, 5, 6, 7, 8, 9, 10, 11, 12, 13, 14, 15, 16, 17, 18, 25

Target Audience

Military/Civilian/both	Civilian
Emergency Responder Group	HAZMAT team members
Emergency Responder Levels	Technician/Specialist level

Type of Instruction

Medium	Classroom, paper-based, video and practical exercise
Gov/Contractor	Government

Recommended Class Size	Less than 25
Course Location/ Facility Dependent	No
Course Availability	Immediately
Cost (Does not include billeting)	No cost
POC	John Kimball
Address	National Fire Academy, 16825 South Seton Avenue, Emmitsburg, MD 21727
Phone Number	(301) 447-1533
Prerequisites:	Emergency Response to Terrorism: Basic Concepts or Emergency Response to Terrorism: Self Study, HAZMAT technical level

Course Title	**Hazardous Materials Incident Management**

Course Sponsor	FEMA/National Fire Academy
Course Description	This course focuses on the duties and responsibilities of the emergency response personnel who will assume the Incident Commander role in hazardous materials emergencies above the initial response. Based on the current requirements of Title 29 of the Code of Federal Regulations Section 1910.120 (29 CFR 1910.120) and the applicable national standard, the program follows three phases of an incident: preplanning, incident operations, and post-incident responsibilities. Length: 6 days
Course Objectives	• The student will be able to successfully pre-plan for a hazardous materials incident or disaster with respect to liability issues. • The student will be able to evaluate the various plans and the enactment of those plans for a possible hazardous materials incident or disaster. • The student will be able to successfully manage a simulated hazardous materials incident or disaster by using proper processes and plans. • The student will be able to successfully describe and justify the steps in various phases and plans within a hazardous materials incident or disaster.
NBC Areas of Competency	3, 8, 25, 26

Target Audience

Military/Civilian/both	Civilian
Emergency Responder Group	Incident Commanders and First Responder Trainers
Emergency Responder Levels	Senior Management Level

Type of Instruction

Medium	Classroom, paper-based and practical exercise
Gov/Contractor	Government

Recommended Class Size	Less than 50
Course Location/ Facility Dependent	No
Course Availability	Immediately
Cost (Does not include billeting)	No cost

POC	Ms. Angela Weathers
Address	National Fire Academy, 16825 South Seton Avenue, Emmitsburg, MD 21727
Phone Number	(301) 447-1411
Prerequisites	Applicants must be certified by their departments as operations level personnel acting at the Incident Command Level per 29 CFR 1910.120. Emergency management personnel must be certified by their jurisdiction as part of the BOC staff.

Course Title Hazardous Materials Operating Site Practices

Course Sponsor	FEMA/National Fire Academy
Course Description	This course focuses on the strategies and safe procedures for alleviating the danger at a hazardous materials incident. It concentrates on integrating knowledge about hazardous materials chemistry, storage, transportation, and potential release scenarios about local hazardous materials incident plans and response systems. Length: 14 days
Course Objectives	• The students will be able to identify and list the major Federal laws, regulations, and standards associated with hazardous materials response. • Given scenario description, the students will be able to complete all portions of a product data resource information sheet using multiple resource/reference materials. • The students will be able to define and explain incident estimate, incident analysis, incident assessment, spill typing, and release types. • The students will be able to determine strategic goals, methods, and priorities. • The students will be able to choose the proper tactical options for various hazardous materials incidents or disasters.
NBC Areas of Competency	3, 4, 5, 11, 14, 25, 26

Target Audience

Military/Civilian/both	Civilian
Emergency Responder Group	Firefighter/HAZMAT, Incident Commanders and First Responder Trainers
Emergency Responder Levels	Technician/Specialist Level

Type of Instruction

Medium	Classroom, paper-based and practical exercise
Gov/Contractor	Government

Recommended Class Size	Less than 50
Course Location/ Facility Dependent	No
Course Availability	Immediately
(Does not include billeting)	No cost

POC	Ms. Angela Weathers
Address	National Fire Academy, 16825 South Seton Avenue, Emmitsburg, MD 21727
Phone Number	(301) 447-1411
Comments	NFA Chemistry of Hazardous Materials or documented equivalent training is recommended but not required.

Course Title	**Incident Command System for Emergency Medical Services**

Course Sponsor	FEMA/National Fire Academy
Course Description	In this course, students will be introduced to the concepts of EMS, specifically, Incident Command, through lecture and guided discussion. Then they will use scenarios, case studies, graphics, audiovisuals, and role-play to demonstrate understanding of the concepts. Length: 16 hours
Course Objectives	• The students will be able to identify and analyze various hazards. • By using the EOC scope, students will be to set up evacuation routes, shelter systems, proper communication lines, resource management, and logistics systems. • The students will be able to properly execute the recovery phase of an incident.
NBC Areas of Competency	8a, 16

Target Audience

Military/Civilian/both	Civilian
Emergency Responder Group	Emergency Medical Services (e.g., EMT, Paramedic, etc.) and First Responder Trainers
Emergency Responder Levels	EMS Level

Type of Instruction

Medium	Classroom, paper-based, video and practical exercise
Gov/Contractor	Government

Recommended Class Size	Less than 50
Course Location/ Facility Dependent	No
Course Availability	Immediately
Cost (Does not include billeting)	No cost
POC	Mr. Jeff Dyar
Address	National Fire Academy, 16825 South Seton Avenue, Emmitsburg, MD 21727
Phone Number	(301) 447-1087
Prerequisites	Demonstrated experience in Incident Command.

ENVIRONMENTAL PROTECTION AGENCY (EPA)

Course Title Air Monitoring for Hazardous Materials (165.4)

Course Sponsor U.S. EPA

Course Description This course instructs participants in the practices and procedures for monitoring and sampling airborne hazardous materials. It is designed for personnel who evaluate releases of airborne hazardous materials at hazardous waste sites or accidental hazardous material releases. Evaluation of worker exposure to these releases is emphasized. Length: 5 days

Topics that are discussed include air monitoring and sampling programs, air monitoring and sampling techniques, air monitoring and sampling equipment, instrument calibration, exposure guidelines, air dispersion modeling, and health and safety considerations. The course includes operating procedures for specific air monitoring and sampling equipment, as well as strategies for air monitoring and sampling at abandoned hazardous waste sites and for accidental releases of hazardous chemicals. Instructional methods used are lectures, class problem-solving sessions, laboratory and field exercises with hands-on use of instruments.

Course Objectives

- Demonstrate the proper use of the following air monitoring and sampling equipment:
  - Oxygen monitors
  - Toxic gas monitors
  - Flame ionization detectors
  - Sampling pumps and collection media
  - Direct-reading aerosol monitors
- Identify the operational parameters, limitations, and data interpretation requirements for the instruments listed above.
- Identify the factors to be considered in the development of air monitoring and sampling plans.
- Discuss the use of air monitoring data for the establishment of personnel and operations health and safety requirements.

NBC Areas of Competency 18

Target Audience

Military/Civilian/both	Civilian
Emergency Responder Group	Hazardous Waste Site Workers, Environmental Response Personnel
Emergency Responder Levels	Technician/Specialist Level

Type of Instruction

Medium	Classroom, practical exercise, and group
Gov/Contractor	Contractor

Recommended Class Size Less than 30

Course Location/ Facility Dependent No

Course Availability Immediately

POC Mr. Bruce Potoka

Address	Environmental Response Training Program, U.S. EPA, 26 W. Martin Luther King Drive (B-3), Cincinnati, OH 45368
Phone Number	(513) 569-7537
Prerequisites	40 hours HAZWOPER training
Comments	For Federal, State and local employees.

Course Title	**Designs for Air Impact Assessments at Hazardous Waste Sites**

Course Sponsor	U.S. EPA
Course Description	This course is intended for management-level site personnel and U.S. EPA work-plan and air review staff who are responsible for assessing and coordinating air sampling, air monitoring, and air modeling strategies as a basis for evaluating risk to onsite and offsite receptors. Instructional methods include lecture, case studies, group discussions, and demonstrations. Length: 5 days
Course Objectives	• Evaluate air monitoring, air sampling, and air modeling data to develop an air impact assessment. • Define the objectives of the air assessment. • Develop and implement work plans for hazardous waste sites. • Implement appropriate quality assurance and quality control when developing an air impact assessment.
NBC Areas of Competency	14, 18, 25

Target Audience

Military/Civilian/both	Civilian
Emergency Responder Group	Waste Site Workers
Emergency Responder Levels	Technician/Specialist Level

Type of Instruction

Medium	Classroom and practical exercise
Gov/Contractor	Contractor

Recommended Class Size	Less than 30
Course Location/ Facility Dependent	No, but requires large classroom or facility
Course Availability	Immediately
POC	Mr. Bruce Potoka
Address	Environmental Response Training Program, U.S. EPA, 26 W. Martin Luther King Drive (B-3), Cincinnati, OH 45368
Phone Number	(513) 569-7537
Comments	For Federal, State, and local government employees.

Course Title	**Emergency Response to Hazardous Material Incidents**

Course Sponsor	U.S. EPA
Course Description	This course provides emergency response personnel, primarily firefighters, police officers, and emergency medical services personnel, with the information and skills needed to recognize, evaluate and control an incident involving the release, or potential release of hazardous materials. It is intended for members of hazardous materials response teams. The focus of the course is on recognizing and evaluating a hazardous materials incident, organizing the response team, protecting refining decision-making skills, and protecting the public. Topics that are discussed include chemical and physical properties of hazardous materials, toxicology, procedures, personnel protection and safety, and sources of information. Instructional methods used are lectures, class problem-solving sessions, and field exercises. Emphasis is on the hands-on use of equipment to apply lecture information in a practical manner. Length: 5 days
Course Objectives	• Select and use the appropriate personnel protective equipment for responding to an incident involving hazardous materials. • Develop and implement procedures for the effective decontamination of emergency response personnel. • Utilize air monitoring instruments to evaluate the hazards present at a hazardous materials incident. • Utilize the Incident Command System to effectively manage an incident involving the release of hazardous materials. • Utilize size-up techniques to develop strategies and select the appropriate tactics for mitigating a hazardous materials incident.
NBC Areas of Competency	7, 8, 9, 12, 16, 17, 25

Target Audience

Military/Civilian/both	Civilian
Emergency Responder Group	Firefighters/HAZMAT, Emergency Medical Service and Law Enforcement
Emergency Responder Levels	Technician/Specialist Level

Type of Instruction

Medium	Classroom and practical exercise
Gov/Contractor	Contractor

Recommended Class Size	Less than 30
Course Location/ Facility Dependent	No
Course Availability	Immediately
POC	Mr. Bruce Potoka
Address	Environmental Response Training Program, U.S. EPA, 26 W. Martin Luther King Drive (B-3),Cincinnati, OH 45368
Phone Number	(513) 569-7537

Course Title Hazardous Material Incident Response Operations (165.5)

Course Sponsor EPA (Environmental Response Team)

Course Description A course designed for personnel involved with the investigation and remediation of uncontrolled hazardous waste sites. It provides the basic information needed to meet the training requirements of 29 CFR 1910.120 (Hazardous Waste Operations and Emergency Response) for hazardous waste site workers. Length: 5 days

Course Objectives

- Identify methods and procedures for recognizing, evaluating and controlling hazardous substances.
- Identify concepts, principles, and guidelines to protect site or response personnel.
- Discuss regulations and action levels to ensure health and safety of workers.
- Discuss fundamentals needed to develop organizational structure and SOPs.
- Select and use dermal and respiratory equipment.
- Demonstrate the use, calibration, and limitations of direct-reading air monitoring equipment.

NBC Areas of Competency 7, 9, 12, 18, 25

Target Audience

Military/Civilian/both	Civilian
Emergency Responder Group	Other (HAZMAT Waste Site Workers)
Emergency Responder Levels	Technician/Specialist Level

Type of Instruction

Medium	Classroom, practical exercise, and other
Gov/Contractor	Both

Course Location/ Facility Dependent No

POC Mr. Bruce Potoka

Address Environmental Response Training Program, U.S. EPA, 26 W. Martin Luther King Drive (B-3), Cincinnati, OH 45368

Phone Number (513) 569-7537

Comments Participants will wear fully encapsulating suits and chemical splash gear. Individuals not in a medical surveillance program should consult a physician prior to attending this course.

Course Title Health and Safety Plan Workshop (165.12)

Course Sponsor	U.S. EPA
Course Description	This course provides participants with guidance in using the U.S. EPA's Health and Safety Plan (HASP) software to develop site-specific health and safety plans in compliance with 29 CFR 1910.120 and 40 CFR 311. Topics discussed include an overview OSHA and EPA Hazardous Waste Operations and Emergency Response (HAZWOPER) standard and the requirements of a health and safety plan; HASP development, system requirements and installation; creating and consulting site files; accessing data from EPA's Environmental Response Team's (EPA-ERT) Bulletin Board System; and creating, editing, and auditing a site-specific health and safety plan. The course is intended for personnel responsible for developing site-specific health and safety plans at uncontrolled hazardous waste sites and for extended emergency operations. Length: 1 day
Course Objectives	After completing the course, participants will be able to generate a Health and Safety Plan using the HASP software package developed by EPA's Environmental Response Team.
NBC Areas of Competency	25

Target Audience

Military/Civilian/both	Civilian
Emergency Responder Group	Health and Safety Planners
Emergency Responder Levels	Senior Management Level

Type of Instruction

Medium	Classroom and practical exercise
Gov/Contractor	Contractor

Course Location/ Facility Dependent	No

POC	Bruce Potoka
Address	Environmental Response Training Program, U.S. Environmental Protection Agency, 26 W. Martin Luther King Drive (B-3), Cincinnati, OH 45368
Phone Number	(513) 569-7537
Comments	This course delivered through EPA's regional Superfund training contacts and at the U.S. EPA Training Centers in Cincinnati, OH and Edison, NJ.

Course Title	**Incident Command/Unified Command for On-Scene Coordinator**
Course Sponsor	U.S. EPA
Course Description	This course provides participants with an overview of the NIIMS Incident Command System. Special emphasis is placed on the development and use of Unified Command by On-Scene Coordinators (OSC's) during emergency response activities. The course is designed to help federal agencies comply with 40 CFR 300.105 and paragraph q of 29 CFR 1910. Length: 1 day
Course Objectives	After completing this course, participants will be able to: • Explain the need for the use of an ICS during an emergency response. • Describe the basic concepts of ICS and Unified Command. • Develop a Unified Command structure, pursuant to 40 CFR 300.105. • Demonstrate the use of the concept of Area Command during an emergency response.
NBC Areas of Competency	11, 16

Target Audience

Military/Civilian/both	Civilian
Emergency Responder Group	Incident Commanders
Emergency Responder Levels	Operations Level

Type of Instruction

Medium	Classroom and practical exercise
Gov/Contractor	Contractor

Recommended Class Size	Less than 30
Course Availability	Within 30 days
Cost (Does not include billeting)	$0 (for employees of federal, state, or local government)
POC	Mr. Bruce Potoka
Address	Environmental Response Training Program, U.S. EPA, 26 W. Martin Luther King Drive (B-3), Cincinnati, OH 45368
Phone Number	(513) 569-7537
Comments	Course should be available in summer, 1998.

Course Title Radiation Safety at Superfund Sites

Course Sponsor	U.S. EPA
Course Description	This course is designed for individuals who may 1) encounter radioactive materials in the course of their work, or 2) become involved with the regulatory oversight of a location contaminated with radioactive materials. The course provides participants with an understanding of the fundamental principles of radiation safety, with emphasis placed on radiation detection instrumentation and contamination control work practices. Length: 5 days
Course Objectives	• Detect the presence of radioactive materials while performing investigations at hazardous waste sites. • Implement methods of radiation exposure reduction and contamination control under the guidance of health physics personnel. • Identify regulations concerning area posting, exposure limits and reporting, transportation requirements, and release limits. • Propose options for remediation and disposal of radioactive materials.
NBC Areas of Competency	18

Target Audience

Military/Civilian/both	Civilian
Emergency Responder Group	Waste Site Workers
Emergency Responder Levels	Technician/Specialist Level

Type of Instruction

Medium	Classroom and practical exercise
Gov/Contractor	Contractor

Recommended Class Size	Less than 30
Course Location/ Facility Dependent	No
Course Availability	Immediately
POC	Mr. Bruce Potoka
Address	Environmental Response Training Program, U.S. EPA, 26 W. Martin Luther King Drive (B-3), Cincinnati, OH 45368
Phone Number	(513) 569-7537

DEPARTMENT OF JUSTICE (DOJ)/
OFFICE OF JUSTICE PROGRAMS (OJP)

Course Title Emergency Response to Terrorism: Basic Concepts

Course Sponsor	Office of Justice Programs, U.S. Department of Justice
Course Description	This program was developed by the National Fire Academy for OJP and is designed to prepare first responders for terrorist incidents dealing primarily with life safety and self preservation with an all hazard focus including biological, nuclear, incendiary, chemical and other explosive devices (B-NICE). This focus includes information on detection and monitoring for the above mentioned topics. Length: 16 hours
Course Objectives	• The student will be able to recognize circumstances that indicate a potential terrorist act. • The student will be able to define the implementation of appropriate self-protective measures. • The student will be able to define scene control issues involving isolation, evacuation, and perimeter control associated with terrorist incidents. • The student will be able to recognize, define, and recommend tactical objectives for B-NICE incidents. • The student will be able to describe the command and control issues associated with the responder operations at a crime scene.
NBC Areas of Competency	1, 2, 2b, 3-5, 8, 8a, 9, 10, 11, 12, 14, 15, 29

Target Audience

Military/Civilian/both	Civilian
Emergency Responder Group	Firefighter/Hazmat Emergency Medical Service (e.g. EMT, Paramedic, etc), Law enforcement encouraged to attend—coordinate with local Fire Chief
Emergency Responder Levels	Operations Level

Type of Instruction

Medium	Classroom, paper based and video
Gov/Contractor	Fire service training practitioners serve as faculty

Recommended Class Size	Less than 50
Course Location/ Facility Dependent	No
Course Availability	Immediately, targeting the 120 largest urban jurisdictions in Nation.
Cost	No cost to participating jurisdiction; instruction provided on-site by certified trainers from the participating jurisdiction or from OJP-provided certified trainers.
POC	Allen Cole
Address	Community Research Associates, 311 Plus Park Boulevard, Suite 100 Nashville, TN 37217
Phone Number	(615) 399-9908
Comments	The delivery of this program is coordinated with Fire Chief in the target jurisdiction for scheduling and attendance. Community Research Associates is the coordinating contractor for OJP and coordinates the provision of training materials, training facilities if required and all other elements of support for this effort.

Course Title Incident Response to Terrorist Bombings

Course Sponsor Office of Justice Programs, U.S. Department of Justice

Course Description This program was developed by New Mexico Institute of Mining and Technology (New Mexico Tech) and is designed to prepare emergency responders (law enforcement, fire service and emergency medical personnel) for WMD incidents involving energetic materials (explosives and incendiaries). The course introduces participants to explosive materials that could be used by terrorists in the fabrication of explosive devices and common designs for improvised explosive devices. Participants also receive training in the recognition of explosive chemicals and devices; procedures for identification, preservation and collection of forensic evidence in energetic materials incidents; identification of blast injuries; and procedures for responding effectively to WMD incidents involving energetic materials. Length: 28 hours over 3 ½ days.

Course Objectives The course is designed to:

- Provide participants with the skills and knowledge necessary to evaluate and respond effectively to incidents of terrorism that involve energetic materials and other WMD. (Cognitive)
- Prepare *selected* participants to present *awareness level* training to personnel in their departments on procedures for responding to WMD incidents involving energetic materials. (Cognitive)
- Instill in participants a respect for the destructive potential of explosive materials that could be used by terrorists in a WMD incident. (Affective)

NBC Areas of Competency 1, 3, 5, 6, 10, 11

Target Audience

Military/Civilian/both	Civilian and Federal
Emergency Responder Group	Law Enforcement, Firefighters, Emergency Medical Service (trainers or senior administrators)
Emergency Responder Levels	Technical Level

Type of Instruction

Medium	Classroom and field, printed materials, overhead transparencies and video (conference, demonstrations and practical exercises)
Gov/Contractor	Instructors are selected on the basis of professional qualifications

Recommended Class Size 24 participants

Course Location/ Facility Dependent New Mexico Tech (site must support explosive demonstrations involving up to 500 pounds of explosives)

Course Availability Immediate availability with priority to U.S. Government-identified priority locations.

Cost No cost

POC Dennis Hunter

Address	Energetic Materials Research and Development Center, 801 Leroy Place, Socorro, New Mexico 87801-4796
Phone Number	(505) 835-5312

Course Title Law Enforcement Response to Weapons of Mass Destruction Incidents

Course Sponsor Office of Justice Programs, U.S. Department of Justice LSU Academy of Counter-Terrorist Education

Course Description This course will assist emergency responders in deterring, preventing, preparing for and responding to a terrorist attack in the United States, involving conventional or non-conventional weapons of mass destruction (WMD), depending on the establishment and maintenance of a robust crisis and consequence management infrastructure. Emergency responders, who arrive first on the scene, must be adequately trained, equipped and exercised to ensure they have the ability to effectively respond and conduct relief and recovery operations as part of an interagency team. The course goal is to prepare representatives of Federal, state and local law enforcement agencies to perform safely and effectively during incidents involving WMD.

Course Objectives

1. Differentiate weapons of mass destruction incidents from other terrorist and criminal incidents.
2. Summarize how course materials can be applied to meet WMD performance requirements of law enforcement agencies and individual officers.
3. Describe how participant performance will be evaluated and how that performance will determine participant outcomes (Certificate or Training or Letter of Attendance).
4. Define the following terms: terrorism, domestic terrorism, right-wing terrorism, left-wing terrorism, special interest terrorism, international terrorism, and state sponsors of terrorism.
5. Differentiate terrorist acts from other forms of criminal activity.
6. Compare and contrast the terms terrorist incident, suspected terrorist incident and terrorism prevention.
7. Describe potential scenarios for terrorist attacks in communities within the U.S. including:
   a. Organizations with the demonstrated and/or potential capability to conduct terrorist attacks
   b. Motivations, objectives, capabilities and likely tactics of such organizations
   c. Potential targets for such organizations
8. Describe the roles and responsibilities of local, state and federal government agencies in responding to WMD incidents.
9. Differentiate laws, regulations, directives and standards.
10. Describe the structure and functions of an "Incident Command System" (ICS) and how law enforcement agencies operate within an ICS.
11. List and describe the five types of WMD materials that could be employed by terrorists (using the "B-NICE" acronym).
12. Differentiate the five types of WMD materials based on destructive potential; ease of fabrication, manufacture or acquisition; ease of delivery (detonation and/or dispersion); and likelihood of use by domestic and international terrorists operating in the U.S.
13. Describe routes of entry for common WMD materials.
14. Describe the advantages and disadvantages for each type of WMD material.
15. Describe the characteristics of and potential scenarios for the use of each type of WMD material in terrorist attacks.
16. Define WMD incident priorities relative to protection of persons, environment and property.
17. Describe measures that provide the greatest protection of life during a WMD incident.

18. Describe decontamination techniques and identify situations appropriate for each technique.
19. Describe "levels of protection" and protective clothing and equipment that could be available to emergency responders in a WMD incident.
20. Describe the role of critical incident stress management in supporting WMD incident responders.
21. List and describe the five phases associated with law enforcement response to WMD incidents.
22. Describe law enforcement roles and responsibilities during the following phases of a WMD incident:
    a. Prevention and Deterrence
    b. Notification
    c. Response
    d. Recovery
    e. Restoration
23. Describe procedures that law enforcement personnel can employ to meet their responsibilities during each phase of a WMD incident.
24. Analyze potential WMD incidents to determine appropriate actions for first responding law enforcement personnel.

NBC Areas of Competency	1, 2, 2a, 2b, 3-8, 8a, 9, 10, 10a, 11-13, 15-17

Target Audience This course is designed principally for "trainers" in federal, state and local law enforcement agencies. In most cases, trainers include mid-level supervisors and officers who are assigned training responsibilities as their principal duty (e.g. Police Academy staff members, district or station training officers, etc.). In addition, the course will be offered as a direct delivery to law enforcement agencies.

Military/Civilian/both	Civilian
Emergency Responder Group	Federal Agent, trooper, street cop and deputy
Emergency Responder Levels	Awareness Level

Type of Instruction

Medium	Classroom, CD-ROM, slides, video tape, student/instructor manuals, and practical exercise
Gov/Contractor	Louisiana State University, Academy of Counter-Terrorist Education

Recommended Class Size	30
Course Location/ Facility Dependent	Yes. This course is being delivered at state police academies and/or with state sheriffs' associations in all 50 states.
Course Availability	This course is available to law enforcement agencies upon request.
Cost	No cost to participating jurisdiction. Federally funded for state and local law enforcement agencies (covers tuition and course materials).
POC	Stephen Guillot, Jr.
Address	LSU Academy of Counter-Terrorist Education, 334 Pleasant Hall, Baton Rouge, LA 70803
Phone Number	(225) 388-1790
Fax Number	(225) 334-1642
E-mail	sguillot@doce.lsu.edu

Comments This course meets or exceeds applicable national standards and regulations.

Course Title — Managing Weapons of Mass Destruction Incidents: An Executive Level Program for Sheriffs

Course Sponsor

Office for State and Local Domestic Preparedness Support, Office of Justice Programs, U.S. Department of Justice

Course Description

This program was developed by the National Sheriff's Association and is designed for Executive Level personnel in managing a WMD incident. The course will prepare sheriffs to plan, manage, coordinate, strategize, equip, and train their office to respond effectively to a WMD incident. The sheriff will be provided an overview of the terrorist threat and a summary of actions that his office should take to prepare for a WMD incident. Length: One and one-half 12-hour days.

Course Objectives

At the conclusion of this program, the sheriff will be able to:

- Differentiate weapons of mass destruction incidents from other terrorist and criminal incidents.
- Define terms associated with terrorism.
- Differentiate terrorism from other types of criminal activity.
- Compare and contrast types of terrorist events.
- Describe routes of entry for common WMD materials.
- Describe the five categories of weapons/materials that could be employed by terrorists in WMD incidents.
- Describe the advantages and disadvantages of each type of WMD material.
- Describe the roles and responsibilities of local, state, and Federal Government agencies in responding to WMD incidents.
- Describe actions that can be taken for prevention and deterrence of WMD incidents.
- Describe the process used to conduct a hazard analysis.
- Describe procedures to develop emergency response plans.
- Define "Incident Command System" (ICS).
- Describe the components and factors effecting ICS.
- Describe the structure and functions of an ICS and how law enforcement agencies operate within an ICS.
- Describe the incident response process.
- List and describe the four phases of a Sheriff's Office response to a WMD incident.
- Describe the roles and responsibilities of the Sheriff's Office during the four phases of a WMD incident.
- Describe procedures that sheriffs' deputies and other personnel can employ to meet their responsibilities during each phase of a WMD incident.
- Describe decontamination techniques employed during WMD incidents.
- Analyze potential WMD incidents to determine appropriate actions for first responding law enforcement personnel.
- Describe the future of terrorism in the U.S.
- Describe actions that can be taken to prepare for terrorist incidents in his/her county.

Target Audience

Emergency Responder Group	Office of the Sheriff, National Guard leadership, invited Government officials (local and national)
Emergency Responder Levels	Executive Level

Type of Instruction

Medium	Classroom, handouts, practical exercise, CD-ROM, and video

Recommended Class Size	20 to 50 attendees
Course Location/ Facility Dependent	Delivered to requesting site
Course Availability	Upon request from National Sheriff's Association
Cost	No cost
POC	Ed Willever, WMD Project Director
Address	National Sheriff's Association, 1450 Duke Street, Alexandria, VA 22314-3490
Phone Number	(800) 424-7827, ext. 336 Or Theresa Burick, (800) 424-7827, ext. 332

Course Title WMD Advanced Operations

Course Sponsor Center for Domestic Preparedness (CDP), Office of Justice Programs, United States Department of Justice

Course Description This course is a four-day training course that provides an in-depth look at international and domestic terrorism; an advanced level of chemical agents and chemical toxicological terms associated with industrial and military chemical warfare agents; biological agents and toxicological terms associated with biological agents; and radiological materials and toxicological terms associated with nuclear and radiological materials. The course examines the role of ordnance/explosive materials and devices that can be used in a terrorist attack as well as the presence of the secondary device targeted at the emergency responder. There is hands-on training on personal protective equipment (PPE), mass casualty triage, decontamination, and advanced survey and monitoring equipment. The instruction takes the course from operational defensive to offensive operations as defined by OSHA. The course also incorporates an opportunity for the attending operational level responder to participate in offensive operations in a toxic agent environment. Length: 4 days.

Course Objectives The Operational Responder will:

- Identify means and methods of obtaining intelligence information on potential terrorism threats to the United States.
- Identify potential international and domestic terrorist threats.
- Conduct a vulnerability assessment and identify potential terrorist targets based on recent terrorist activity and the political and ideological beliefs of different terrorist groups.
- Identify WMD chemical agents and their toxicological effects.
- Identify WMD biological agent terms and toxicological effects.
- Identify WMD radiological materials and their toxicological effects.
- Identify a source for determining the size of, predict the size of, and estimate the potential harm within an endangered area.
- Demonstrate an understanding of the role of incident commander.
- Demonstrate developing a plan of action, including safety considerations consistent with the local emergency response plan and the organizations' SOPs within the capability of available personnel, personal protective equipment (PPE), and control equipment.
- Identify the Government agencies providing assistance during a WMD incident and identify their roles and the type of assistance or resources available.
- Identify and describe the role of the emergency responder at the operational level.
- Analyze the WMD incident and determine the magnitude of the problem in terms of outcomes.
- Describe the responsibility to implement the planned response to favorably change the outcomes consistent with the local emergency response plan and the organizations' SOPs.
- Establish and enforce scene control procedures, including control zones, emergency decontamination, and communications.
- Identify the hazards that are associated with an incident involving criminal or terrorist activity.
- Don and doff Level A and C PPE, don and doff self-contained breathing apparatus (SCBA) and air purifying respirator (APR) breathing apparatus, perform WMD hazard

	detection and identification using advanced field monitoring equipment, conduct interior and exterior searches for secondary explosive devices, conduct mass casualty triage and establish and conduct mass and technical decontamination operations.
NBC Areas of Competency	1, 2, 2a, 2b, 3, 4, 5, 6, 7, 8, 8a, 9, 10, 10a, 11, 12, 13, 14, 15, 16, 17, 17a, 18, 19, 20, 21, 22, 23, 24, 25, 26

Target Audience

Military/Civilian/both	Civilian and Federal
Emergency Responder Group	Fire Service, Law Enforcement, Emergency Medical Service, Emergency Management, and Emergency Communications

Type of Instruction

Medium	Seminar, video and practical exercises

Recommended Class Size	Instructor ratios 2:50, 2:10 and 1:10
Course Location/ Facility Dependent	Center for Domestic Preparedness, Fort McClellan, Anniston, AL, and its toxic agent training facility
Course Availability	Instruction provided on-site by certified instructors from participating jurisdictions
Cost	No cost
POC	L. Z. Johnson, Director
Address	CDP, P.O. Box 5100, 61 Parliament Drive, Anniston, AL 36205-5100
Phone Number	(256) 847-2000/2134/2116

Course Title WMD Command

Course Sponsor Center for Domestic Preparedness (CDP), Office of Justice Programs, United States Department of Justice

Course Description This course is a four-day training course that provides training on: establishing a pre-incident planning methodology; coordinating a pre-incident planning group; conducting a terrorism vulnerability and risk assessment; and developing a WMD incident response plan. It also offers an in-depth update on domestic terrorism and the threats posed to the United States in the future; seminars in the advanced level of chemical toxicology associated with industrial and military chemical warfare weapons; biological toxicology associated with biological agents; and radiological toxicology associated with nuclear and radiological materials. The course also includes seminars on conducting incident analysis and making incident management decisions. It includes seminars on the Federal Response Plan and Federal agency assistance. The hands-on training consists of site training with WMD advanced detection, survey and monitoring equipment; conducting offensive operations in PPE level C; and conducting interior and exterior searches for explosive secondary devices directed at emergency responders. The WMD Command attendee participates in a six-hour interactive tabletop exercise where the attendees implement the Incident Command System to plan for and execute command functions at a WMD incident. The course also incorporates an opportunity for the attendee to participate in offensive operations in a toxic agent environment. Length: 4 days.

Course Objectives The WMD Commander will:

- Identify critical functions to be represented in the WMD pre-incident planning group.
- Identify planning tasks and assign responsibilities to the members of the WMD pre-incident planning group.
- Coordinate for the most recent terrorist threat information and analyze terrorist threat information to determine the historical methods of operation of the terrorist threat.
- With the appropriate intelligence information, determine the most probable terrorist target and conduct a vulnerability and risk assessment to construct adequate response measures.
- With the appropriate intelligence information, determine the most probable terrorist target, identify supporting agencies that will participate in response plan development, and establish the response priorities for a community.
- Identify the steps for developing a plan of action.
- Determine the most probable terrorist target and conduct a vulnerability and risk assessment to construct adequate response measures, with the appropriate intelligence information.
- Identify supporting agencies that will participate in response plan development.
- Identify the process for determining the effectiveness of an action option and the potential outcomes.
- Identify future potential international and domestic terrorist threats.
- Identify WMD chemical agents and their toxicological effects and behaviors, using the appropriate information source.
- Identify WMD biological agents and their toxicological effects and behaviors, using the appropriate information source.
- Identify WMD radiological materials and their toxicological effects and behaviors, using the appropriate information source.
- Demonstrate the ability to survey a WMD incident involving chemicals and

containers used as vehicles for chemicals to identify and classify unknown materials and verify the identity of the chemicals, using advanced survey and monitoring equipment.
- Identify WMD victim injuries and evacuate medical casualties to the decontamination point using appropriate medical techniques and evacuation equipment.
- Demonstrate the ability to don, work in and doff appropriate chemical protective clothing.

NBC Areas of Competency 1, 2, 2a, 2b, 3, 4, 5, 6, 7, 8, 8a, 9, 10, 10a, 11, 12, 13, 14, 15, 16, 17, 17a, 18, 19, 20, 21, 22, 23, 24, 25, 26

Target Audience

Military/Civilian/both	Civilian and Federal
Emergency Responder Group	OSHA certified Hazardous Material Technicians in the Fire Service, Law Enforcement, Emergency Medical Service and Emergency Management

Type of Instruction

Medium	Seminar, video, practical exercises and field site training exercises

Recommended Class Size	Instructor ratios 2:50, 2:10 and 1:10
Course Location/ Facility Dependent	Center for Domestic Preparedness, Fort McClellan, Anniston, AL, and its toxic agent training facility
Course Availability	Instruction provided on-site by certified instructors from participating jurisdictions
Cost	No cost
POC	L. Z. Johnson, Director
Address	CDP, P.O. Box 5100, 61 Parliament Drive, Anniston, AL 36205-5100
Phone Number	(256) 847-2000/2134/2116

Course Title WMD Specialist

Course Sponsor Center for Domestic Preparedness (CDP), Office of Justice Programs, United States Department of Justice

Course Description This course is a three-day training course that provides an in-depth look at international and domestic terrorism and the threats posed to the United States in the future; seminars in the advanced level of chemical toxicology associated with industrial and military chemical warfare weapons; biological toxicology associated with biological agents; radiological toxicology associated with nuclear and radiological materials, and the behaviors of each. The course encompasses 20 hours of hands-on training with advanced WMD survey and monitoring equipment, personal protective clothing and equipment (levels A and C), medical treatment and evacuation of the injured at a WMD incident, and the proper procedures for the identification, preservation and collection of criminal evidence at the scene of a WMD event. As part of the 20 hours of hands-on training, this course also incorporates the opportunity for the attendee to participate in WMD Specialist offensive operations in a toxic agent environment. Length: 20 hours in 3 days.

Course Objectives The WMD Specialist will:

- Identify future potential international and domestic terrorist threats.
- Identify WMD chemical agents and their toxicological effects and behaviors, using the appropriate information source.
- Identify WMD biological agents and their toxicological effects and behaviors, using the appropriate information source.
- Identify WMD radiological materials and their toxicological effects and behaviors, using the appropriate information source.
- Demonstrate the ability to survey a WMD incident involving chemicals and containers used as vehicles for chemicals to identify and classify unknown materials and verify the identify of the chemicals using WMD advanced survey and monitoring equipment.
- Demonstrate the ability to collect WMD chemical agents using WMD sampling equipment.
- Identify WMD victim injuries and evacuate medical casualties to the decontamination point using appropriate medical techniques and evacuation equipment.
- Demonstrate the ability to don, work in and doff appropriate personal protective equipment (PPE) provided.
- Demonstrate safety considerations for personnel working in PPE.
- Demonstrate the ability to survey an incident involving WMD materials using advanced monitoring equipment to determine the actual concentrations of WMD agents or materials and collect samples.
- Demonstrate the ability to identify, catalog, photograph and over-pack criminal evidence at a WMD incident.

NBC Areas of Competency 1, 2, 2a, 2b, 3, 4, 5, 6, 7, 8, 9, 10, 10a, 11, 12, 13, 14, 15, 16, 17, 17a, 18, 19, 20, 21, 22, 23, 24, 25, 26

Target Audience

Military/Civilian/both Civilian and Federal

Emergency Responder Group	OSHA certified Hazardous Material Technicians in the Fire Service, Law Enforcement, Emergency Medical Service and Emergency Management

Type of Instruction

Medium	Seminar, video, practical exercises and field site training exercises

Recommended Class Size Instructor ratios 2:50, 2:10 and 1:10

Course Location/ Facility Dependent Center for Domestic Preparedness, Fort McClellan, Anniston, AL, and its toxic agent training facility

Course Availability	Instruction provided on-site by certified instructors from participating jurisdictions
Cost	No cost
POC	L. Z. Johnson, Director
Address	CDP, P.O. Box 5100, 61 Parliament Drive, Anniston, AL 36205-5100
Phone Number	(256) 847-2000/2134/2116

DEPARTMENT OF JUSTICE (DOJ)/
FEDERAL BUREAU OF INVESTIGATION (FBI)

Course Title	**Basic Course for Bomb Technicians**

Course Sponsor	Department of Justice, FBI, Bomb Data Center, Hazardous Devices School
Course Description	The course is the basic, certification level training program for civilian bomb technicians. The prerequisite is that the attendee be assigned to work as a bomb technician on an accredited bomb squad. The course is held 12 times per year at the Hazardous Devices School, Redstone Arsenal, Alabama. Length: 5 weeks

Course Objectives This course is designed to prepare the civilian bomb technician to appropriately respond to and render safe improvised hazardous devices which may contain not only an explosive hazard, but also a nuclear, biological or chemical material. In addition to the general training on explosives and explosive devices, the following specific WMD related topics are addressed:

- Recognition of a WMD device
- Characteristics and hazards of nuclear, biological and chemical materials
- First aid for nuclear, biological and chemical agents
- Detection of nuclear, biological and chemical materials
- Fundamentals of Hazmat Operations, including protective clothing and equipment, decontamination operations, containment and confinement operations.
- Federal assistance in WMD incidents
- Public protective actions
- Bomb squad responsibilities in WMD incidents

NBC Areas of Competency	1, 2, 2a, 2b, 3, 4, 5, 6, 7, 8, 8a, 9, 10, 10a, 11, 12, 13, 14, 15, 16, 17, 18

Target Audience

Military/Civilian/both	Civilian
Emergency Responder Group	Bomb technicians undergoing basic certification level training
Emergency Responder Levels	Technician/Specialist Level, Operations Level

Type of Instruction

Medium	Classroom, computer-based presentations, video, and practical exercises
Gov/Contractor	TBD

Recommended Class Size	24
Course Location/ Facility Dependent	Yes
Course Availability	TBD
Course Cost	No cost

POC	David Heaven, FBI Program Administrator/Christine Cooper, Registrar
Address	Hazardous Devices School, P.O. Box 8100, Redstone Arsenal, AL 35808
Phone Number	(256) 313-1910/876-4486
Comments	This is the only course in the U.S. for civilian bomb technician basic certification level training.

Course Title	**Weapons of Mass Destruction Bomb Technician Emergency Actions**
Course Sponsor	Department of Justice, FBI, Bomb Data Center, Hazardous Devices School
Course Description	The course is intended for certified civilian bomb technicians. The prerequisite is that the attendee be an actively working certified bomb technician on an accredited bomb squad. The course will be held weekly at the Hazardous Devices School, Redstone Arsenal, Alabama until all civilian bomb technicians have had the opportunity to complete it. The target date for completion is January 2000. Length: 40 hours
Course Objectives	In general, this course is designed to prepare the civilian bomb technician to appropriately respond to suspicious packages which may contain improvised devices with not only an explosive hazard, but also a nuclear, biological or chemical material. The following specific WMD related topics are addressed: • Recognition of a WMD device • Characteristics and hazards of nuclear, biological and chemical materials • First aid for nuclear, biological and chemical agents • Detection of nuclear, biological and chemical materials • Fundamentals of Hazmat Operations, including protective clothing and equipment, decontamination operations, containment and confinement operations • Federal assistance in WMD incidents • Public protective actions • Bomb squad responsibilities in WMD incidents
NBC Areas of Competency	1, 2, 2a, 2b, 3-8, 8a, 9, 10, 10a, 11-18
Target Audience	
Military/Civilian/both	Civilian
Emergency Responder Group	Certified Bomb Technicians
Emergency Responder Levels	Technician/Specialist
Type of Instruction	
Medium	Classroom, computer-based presentations, practical exercises, and video
Gov/Contractor	TBD
Recommended Class Size	20
Course Location/ Facility Dependent	Yes
Course Availability	TBD
Cost	No fee is charged for the course. Travel and per diem paid by the FBI.
POC	David Heaven, FBI Program Administrator; Elaine Cross, Registrar
Address	Hazardous Devices School, P.O. Box 8100, Redstone Arsenal, AL 35808
Phone Number	(256) 313-1910/876-4486
Comments	This course has been ongoing since June 1, 1998. The offering will end upon the completion of training of all civilian bomb technicians in the U.S. (approximately January 2000). The

content of this course is now included as part of the Basic Course for bomb technicians at the Hazardous Devices School.

DEPARTMENT OF TRANSPORTATION (DOT)

Course Title	**First Responder Training Workshop: Public Transportation Chemical, Biological and Nuclear Incidents**
Course Sponsor	Department of Transportation's Research/Special Programs Administration & The Office of the Secretary, Office of Intelligence and Security
Course Objectives	To better understand the vulnerability of the transportation system and to recommend solutions and to leave the department and transportation providers better postured to identity and respond to transportation threats and vulnerabilities in the future. Course focuses on the needs, procedures, command structures, awareness, and other issues germane to first response in the event of a chemical, biological or nuclear threat/incident in a transit venue. Overall objective is to foster grater understanding of the threats, both real and perceived, as well as first response procedures and foster enhanced professional exchange. Length: 2 days
NBC Areas of Competency	1, 2, 3-5, 6, 7, 8, 8a, 9, 10, 11, 13, 14, 16, 19, 20, 21
Target Audience	
Military/Civilian/both	Civilian
Emergency Responder Group	Transit police and transit personnel, firefighters, EMTs/Paramedics and other first responders
Type of Instruction	
Medium	Classroom and emergency drills and tabletop exercises
Gov/Contractor	Fire service training practitioners serve as faculty and other government expert trainers
Course Location/ Facility Dependent	No
Course Availability	As requested
POC	Lenora Burke, DTS-78
Address	Volpe National Transportation Systems Center, 55 Broadway, Cambridge, MA 02142
Phone Number	(617) 494-2206